

City of Goodyear



Report

2020 Stormwater Rate Study



**CITY OF GOODYEAR, ARIZONA
STORMWATER UTILITY RATE STUDY
AND LONG-TERM FINANCIAL PLAN**

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Acknowledgements

During the course of this rate study, several City employees expended considerable time and effort in assisting the project team. These employees included the Mayor and Council, Mr. Johnn Gaio, Ms. Amie Gressett, Mr. Doug Sandstrom, Mr. Javier Setovich, Mr. David Ramirez, Mr. Craig Lynch, Ms. Barbara Chappell, and Ms. Jacque Behrens. The project team owes a debt of gratitude to the hard work, dedication and professionalism of these individuals, without whom this project would not have been successfully completed.

The project team has relied upon the extensive data supplied by the City. Thus, the integrity of the study is largely dependent upon the accuracy of this financial and volumetric 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, in conformity with guidelines for presentation of a forecast established by the American Institute of Certified Public Accountants.

Section I

SECTION I

Introduction to Stormwater Utilities

Introduction



In 2020 the City of Goodyear ("The City") engaged **Willdan** to develop a schedule of stormwater utility fees, both for the current year and for a forecast period ten years into the future. Increasingly throughout the USA, cities have begun establishing separate stormwater utility funds both to capture the costs associated with stormwater management and to set a cost-based monthly fee for this service. The results of this analysis, and the recommended residential and non-residential monthly stormwater fees, are presented in this summary report. The stormwater cost of service model developed to calculate the recommended fees is presented in **Appendix A** of this report.

The principal purpose of this report is to present projections of the financial operating results of the System, and to present a proposed long-term stormwater rate plan.

In the preparation of this report, Willdan has relied upon financial, statistical, and operating data regarding the System which have been taken from the books of record and accounts prepared by or for the City. The project team has also relied on information provided by the management and staff of the City, as well as outside consultants contracted by the City. While the project team believes such sources to be reliable, it has not verified the accuracy of any of the information furnished by and obtained from such sources and offers no assurances with respect thereto. To Willdan's knowledge, the summaries presented herein accurately reflect the information obtained from such sources.

The projections set forth herein are subject to change based upon indeterminate future events that could impact the conclusions presented herein. For example, the actual results can be impacted by such factors as slower than predicted customer growth, unanticipated increases in operating or capital expenditures, and other costs of the System. Any such event could have an adverse effect on the financial operating results of the system.

Background on Stormwater Management

The National Research Council has released a study entitled *Urban Stormwater Management in the United States*, compiled by the Committee on Reducing Stormwater Discharge Contributions to Water Pollution. It presents a comprehensive history and analysis of stormwater challenges and impact for cities in the 21st century. The study notes that as urbanization and development have occurred in recent decades, it has had a significant impact on how water moves above and below the ground following storm events.

The report notes that the federal government authorized creation of the National Pollutant Discharge Elimination System ("NPDES") under the Clean Water Act to address this problem. In 1987 Congress passed Section 402(p) of the Clean Water Act to bring stormwater into the NPDES program.

In 1990 the U.S. Environmental Protection Agency issued the Phase I Stormwater Rules, which required NPDES permits for operators of municipal storm sewer systems serving populations over 100,000, and for runoff associated with industry. In 1999 the EPA issued Phase II stormwater rules to expand these regulations to cities the size of Goodyear and smaller.

These regulations have required cities to create and implement comprehensive stormwater pollution plans and stormwater management plans. As the report states on page 1:

"These plans document the stormwater control measures (SCMs) (sometimes known as best management practices or BMPs) that will be used to prevent stormwater emanating from these sources from degrading nearby waterbodies. These SCMs range from structural methods such as detention ponds and bioswales to nonstructural methods such as designing new development to reduce the percentage of impervious surfaces."

As with many federal government mandates, these sections of the Clean Water Act pertaining to stormwater are unfunded. This has resulted in cities across the USA struggling to develop new methods for financing these additional costs. This has led directly to the increasing popularity of accounting for stormwater costs as separate stormwater utilities.

Stormwater Utility Survey

The national engineering firm Black and Veatch conducts biannual surveys of stormwater utilities in the United States. Their twelfth and latest survey was completed in 2018, and contained a significant amount of interesting data on the status of stormwater utilities in the United States. The survey included responses from 75 utilities in 21 states.

Chart I-1 shows that according to the Black and Veatch survey, 28% of cities operate their stormwater drainage systems as stand-alone departments. **Chart I-2** shows that 69% of these utilities bill their monthly charges on their water and wastewater bill. Only 4% bill as a separate stormwater bill, down from 5% in the 2014 survey.

Chart I-1

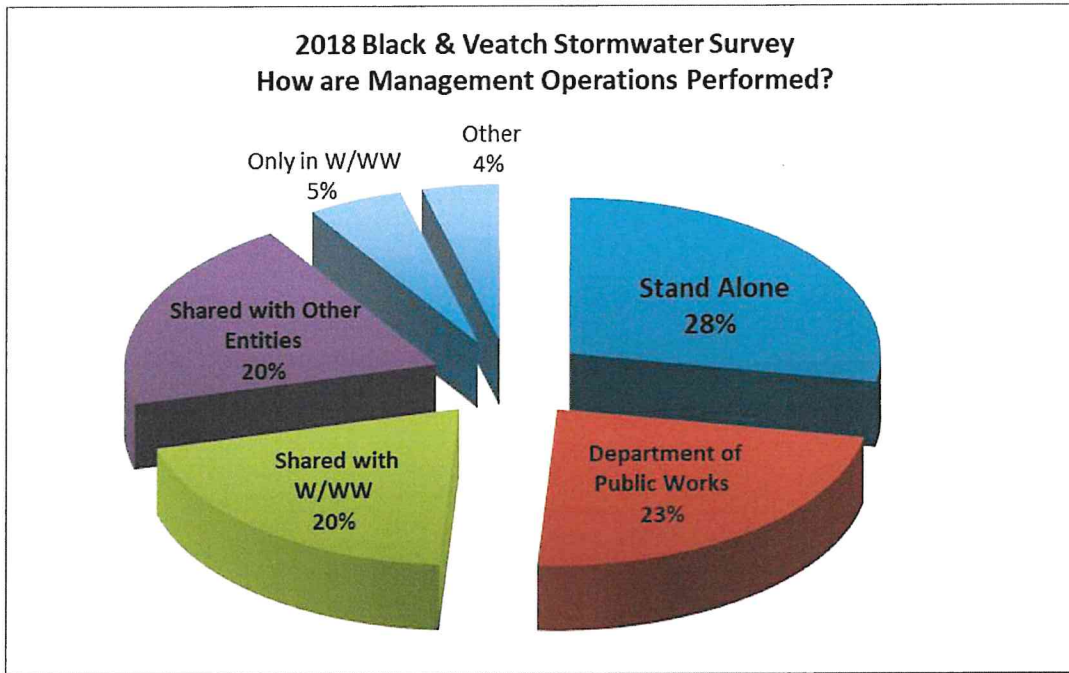
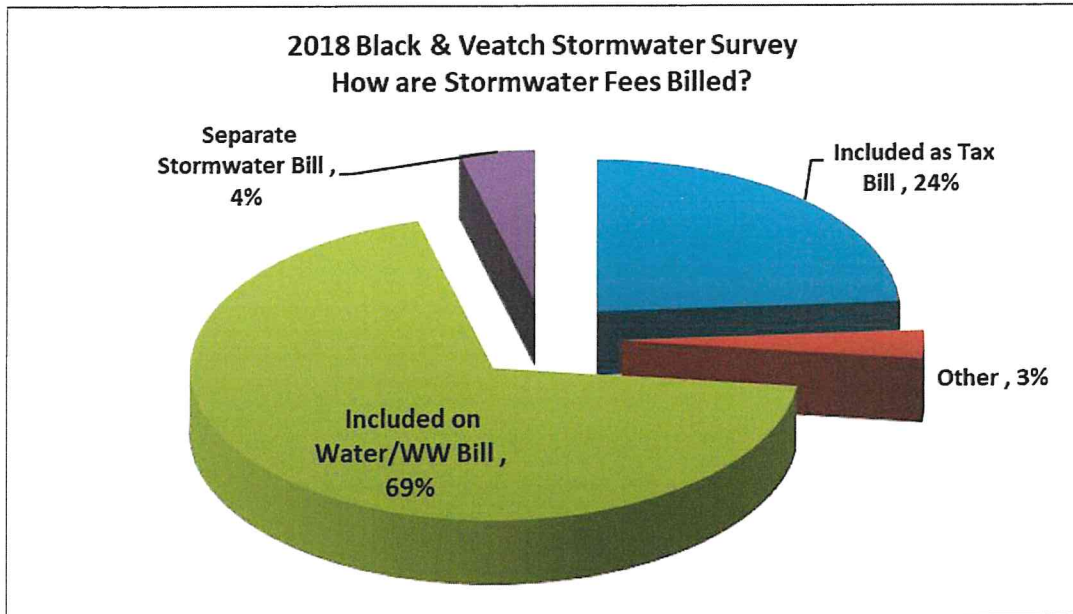


Chart I-2



Further, the Black and Veatch survey included a comparison of monthly residential rates throughout the USA. Results from that survey are presented in **Table I-3**. The table reveals that the national average monthly charge for the cities in the survey is **\$5.48**.

Table I-3

STORMWATER UTILITY AVERAGE MONTHLY SINGLE FAMILY RESIDENTIAL CHARGES					
Seattle WA	\$	40.07	Margate VA	\$	5.40
Redmond WA	\$	16.56	Fort Worth TX	\$	5.40
Lubbock TX	\$	16.23	Lawrence KS	\$	5.30
Fort Collins CO	\$	15.00	Griffin GA	\$	5.17
Bremerton WA	\$	14.90	Sanitation Dist 1 KY	\$	5.04
Naples, FL	\$	13.68	Wichita Falls TX	\$	5.00
Palo Alto CA	\$	13.65	Raleigh NC	\$	5.00
Loveland CO	\$	12.98	Round Rock TX	\$	4.75
Charlotte NC	\$	11.95	Rockledge FL	\$	4.75
Austin TX	\$	11.80	San Antonio TX	\$	4.74
Gresham, OR	\$	11.32	Niceville FL	\$	4.51
SE Metro Stormwater CO	\$	11.00	Topeka KS	\$	4.50
Pierce County, WA	\$	10.61	Mesquite TX	\$	4.50
Orlando, FL	\$	10.00	Rock Hill SC	\$	4.25
Edgewater FL	\$	10.00	Stuart FL	\$	4.18
Satellite Beach FL	\$	8.67	Frisco TX	\$	4.14
Cocoa Beach FL	\$	8.50	Monroe NC	\$	4.00
Ormond Beach FL	\$	8.00	McKinney TX	\$	4.00
Charleston SC	\$	8.00	Lynchburg VA	\$	4.00
Hampton VA	\$	7.83	Lakewood CO	\$	3.85
Sarasota County FL	\$	7.55	Charlottesville VA	\$	3.60
Meadville PA	\$	7.50	Cincinnati OH	\$	3.54
Bloomington MN	\$	7.29	Wichita KS	\$	3.50
Wilmington DE	\$	7.18	Murfreesboro TN	\$	3.25
Medford OR	\$	7.12	Newark DE	\$	2.95
Holly Hill FL	\$	7.00	Littleton CO	\$	2.75
Gwinnett CO GA	\$	6.97	Billings MT	\$	2.69
Adams CO CO	\$	6.90	Mecklenburg County NC	\$	2.68
Tampa FA	\$	6.83	West Miami FL	\$	2.50
Port Richie FL	\$	6.66	Kansas City MO	\$	2.50
Plymouth MN	\$	6.38	Columbia MO	\$	2.25
Killeen TX	\$	6.00	Santa Clarita CA	\$	2.12
Olathe KS	\$	5.77	San Diego CA	\$	1.90
Wooster OH	\$	5.75	Shelby County TN	\$	1.50
Great Falls MT	\$	5.71	Goshen IN	\$	1.25
Cedar Rapids IA	\$	5.48	Hamilton County, TN	\$	0.75
Margate FL	\$	5.46			

Source: 2018 B&V Stormwater Rate Survey

The project team also compiled comparisons for monthly residential stormwater charges in the area. The results of this survey are presented in **Table I-4** below.

The following is notable about this survey:

- The table reveals that Goodyear would have the lowest residential stormwater charge of any City that assesses such a fee in the area.
- Goodyear’s proposed monthly residential stormwater charges are well below the national average.
- The highest recorded fee is \$4.10 from the City of Scottsdale.

Table I-4

CITY OF GOODYEAR		STORMWATER UTILITY AVERAGE MONTHLY SINGLE FAMILY RESIDENTIAL CHARGES	
Goodyear (proposed)	\$ 1.00	Glendale	\$ -
Avondale *	\$ 1.00	Tempe	\$ -
Phoenix	\$ -	Mesa	\$ -
Buckeye	\$ -	Gilbert	\$ -
Scottsdale	\$ 4.10	Chandler	\$ -
Queen Creek	\$ -	Apache Junction	\$ -
Flagstaff	\$ 3.74	Surprise	\$ 2.75
Source: Citys' Website & municipal websites		* Referred to as "Environmental Fee"	

Section II

SECTION II

Stormwater Utility Rate Calculation and Financial Forecast

Study Methodology

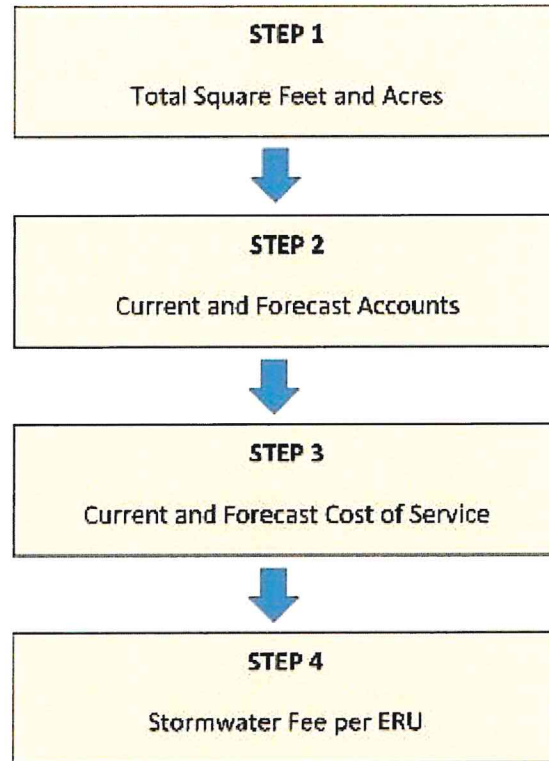
In order to calculate stormwater utility monthly fees for residential and non-residential ratepayers, the following steps are required:

1. The first step is to calculate the total **square feet and acres** inside the City of Goodyear. Detailed calculations have been completed by City staff. This forms the basis for the cost of service and rate calculation. The project team recommends that in the future, when sufficient data is tabulated, the City should consider converting non-residential accounts to be based on impervious surface data.
2. The second step is to forecast total residential and non-residential stormwater accounts both for the current year and a forecast period ten years into the future.
3. The third step is to forecast the City's stormwater utility cost of service for the current year and a forecast period ten years into the future. The cost of service includes current and future operating expenses, capital outlays and debt service and was provided by City staff and its consultants, Black and Veatch.
4. The final step is to calculate the stormwater fee for residential and non-residential units. The fee is based on the percentage and total acres and square feet based on equivalent residential units.

This process is illustrated in **Figure II-1**. The comprehensive stormwater utility cost of service rate model is presented in its entirety in **Appendix A**.



FIGURE II-1



Step 1 – Total Square Feet / Acres

During the course of this study project team members conferred on a regular basis with City staff. The total calculation of residential and non-residential square feet and acres is presented in **Table II-2**. The table presents both the total parcels and the range by square footage and acreage.

It is common for cities to base stormwater fees on impervious surface area as opposed to total acres. At this time the City of Goodyear does not have sufficient data on impervious surface area for its non-residential accounts. The City expects to compile this data in the coming years. Therefore, the project team recommends that in the future, when sufficient data on impervious surface area is tabulated, the City should consider converting non-residential accounts to be based on impervious surface area data for each respective account.

Table II-2

CITY OF GOODYEAR						
TOTAL SQUARE FEET / ACRES						
Low	High	Average	Total Parcels	Percent	Square Feet	43,560 Acres
Residential						
Square Footage Range						
-	2,499	1,250	79	0.3%	98,711	2
2,500	4,999	3,750	2,374	7.7%	8,901,313	204
5,000	9,999	7,500	22,418	72.5%	168,123,791	3,860
10,000	19,999	15,000	5,148	16.6%	77,217,426	1,773
20,000	29,999	25,000	178	0.6%	4,449,911	102
30,000	39,999	35,000	744	2.4%	26,039,628	598
40,000	Above	50,000	-	0.0%	-	-
			30,941	100.0%	284,830,780	6,539
Non-Residential						
Acreage Range						
-	1	-	246	47.0%	3,218,572	74
1	2	-	106	20.3%	6,697,818	154
2	3	-	36	6.9%	3,960,787	91
3	4	-	14	2.7%	2,166,391	50
4	5	-	11	2.1%	2,138,019	49
5	6	-	16	3.1%	3,784,530	87
6	7	-	10	1.9%	2,819,009	65
7	8	-	5	1.0%	1,635,429	38
8	9	-	7	1.3%	2,614,191	60
9	10	-	3	0.6%	1,261,292	29
10	11	-	5	1.0%	2,252,888	52
11	12	-	3	0.6%	1,478,899	34
12	13	-	3	0.6%	1,649,680	38
13	14	-	3	0.6%	1,745,713	40
14	15	-	13	2.5%	8,248,905	189
15	16	-	4	0.8%	2,636,188	61
16	17	-	2	0.4%	1,436,481	33
17	18	-	2	0.4%	1,511,531	35
18	19	-	2	0.4%	1,618,338	37
19	20	-	-	0.0%	-	-
20	30	-	10	1.9%	10,750,251	247
30	40	-	8	1.5%	12,217,126	280
40	50	-	5	1.0%	10,309,956	237
50	60	-	3	0.6%	7,117,169	163
60	70	-	1	0.2%	3,028,179	70
70	80	-	1	0.2%	3,194,179	73
80	90	-	-	0.0%	-	-
90	100	-	-	0.0%	-	-
100	110	-	-	0.0%	-	-
110	120	-	-	0.0%	-	-
120	130	-	-	0.0%	-	-
130	140	-	2	0.4%	11,910,316	273
140	150	-	-	0.0%	-	-
150	160	-	1	0.2%	6,761,925	155
160	170	-	-	0.0%	-	-
170	180	-	-	0.0%	-	-
180	190	-	1	0.2%	8,197,542	188
190	200	-	-	0.0%	-	-
			523	100.0%	126,361,304	2,901

Step 2 – Actual and Forecast Stormwater Accounts

The second step in the stormwater fee development process is to examine the City’s actual and projected customer growth and total square feet. For the purposes of assessing a stormwater utility fee, customers are identified as existing wastewater accounts, both residential and non-residential.

Actual accounts and forecast account growth are presented in **Table II-3**. The growth projections are based on estimates presented in the City’s most recent Water and Wastewater Rate Analysis, conducted by Willdan. It shows modest but steady growth averaging 3.0% annually. Detailed calculations can be found in the stormwater utility model presented in Appendix A.

TABLE II-3

CITY OF GOODYEAR									
CUSTOMERS				TOTAL SQUARE FEET			ACRES		
Residential	Non-Residential	Total		Residential	Non-Residential	Total	Residential	Non-Residential	Total
STORMWATER Total Accounts									
2020	30,941	523	31,464	284,830,780	126,361,304	411,192,084	6,539	2,901	9,440
2021	31,869	539	32,408	293,373,586	130,227,042	423,600,627	6,735	2,990	9,725
2022	32,825	555	33,380	302,174,149	134,092,780	436,266,928	6,937	3,078	10,015
2023	33,810	572	34,382	311,241,675	138,200,126	449,441,801	7,145	3,173	10,318
2024	34,824	589	35,413	320,576,163	142,307,472	462,883,636	7,359	3,267	10,626
2025	35,869	607	36,476	330,196,026	146,656,427	476,852,453	7,580	3,367	10,947
2026	36,945	626	37,571	340,101,262	151,246,991	491,348,253	7,808	3,472	11,280
2027	38,053	645	38,698	350,301,078	155,837,555	506,138,633	8,042	3,578	11,619
2028	39,195	665	39,860	360,813,885	160,669,727	521,483,611	8,283	3,688	11,972
2029	40,371	685	41,056	371,639,682	165,501,899	537,141,581	8,532	3,799	12,331
STORMWATER Annual New Accounts									
2021	928	16	944	8,542,806	3,865,738	12,408,544	196	89	285
2022	956	16	972	8,800,563	3,865,738	12,666,301	202	89	291
2023	985	17	1,002	9,067,526	4,107,346	13,174,872	208	94	302
2024	1,014	17	1,031	9,334,489	4,107,346	13,441,835	214	94	309
2025	1,045	18	1,063	9,619,862	4,348,955	13,968,817	221	100	321
2026	1,076	19	1,095	9,905,236	4,590,564	14,495,800	227	105	333
2027	1,108	19	1,127	10,199,816	4,590,564	14,790,380	234	105	340
2028	1,142	20	1,162	10,512,807	4,832,172	15,344,979	241	111	352
2029	1,176	20	1,196	10,825,797	4,832,172	15,657,970	249	111	359

As shown in Table II-2, approximately 80.4% of residential properties have an area of less than 10,000 square feet. The average square footage per residential property is 9,206, with only 3.0% of residential accounts greater than 20,000 square feet.

However, non-residential properties can be subject to much wider variations in acres per property. The average acres per commercial property is 5.55.

Step 3 – Current and Forecast Cost of Service

Operating Expenses – Current Year

The third step in the process of calculating stormwater utility fees is the determination of the total cost of service for the utility. The cost of service for stormwater drainage utilities is composed of the following elements:

Operating Expenses
Capital Outlays
Debt Principal and Interest

The City of Goodyear has prepared a budget for FY 2020 to reflect expected costs of providing service. The budget was compiled by staff and by the City's engineering consultants, Black and Veatch. The budget and the net cost of service are presented in **Table II-4** on the following page.

As the table shows, all operating expenses are in one fund. The fund is separated into six categories that capture all the operating expenses: Stormwater Program Management, System Maintenance, Water Quality Compliance, System Planning, Stormwater Utility, and Stormwater Program Administration. The total operating expenses for the test year are calculated to be \$295,495.

Table II-4 shows no current test year expenses in the System Maintenance, Water Quality Compliance, System Planning, Stormwater Utility, and Stormwater Program Administration categories, but the project team is assuming that future additional expenses will be incurred in these categories as a result of a contract O&M plan prepared by Black and Veatch.

Table II-4

CITY OF GOODYEAR STORMWATER OPERATING COSTS										
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
OPERATING EXPENSES										
SW Program Management										
Personnel	\$ 190,807	\$ 196,100	\$ 201,500	\$ 207,100	\$ 212,800	\$ 218,700	\$ 224,700	\$ 234,491	\$ 244,820	\$ 255,722
Contractual	94,313	98,100	102,000	106,000	110,200	114,500	119,000	123,184	127,532	131,841
Commodities	10,375	10,500	10,600	10,700	10,800	11,000	11,200	11,872	12,585	13,340
TOTAL	295,495	304,700	314,100	323,800	333,800	344,200	354,900	369,547	384,936	400,902
System Maintenance	-	-	135,500	169,200	137,200	172,400	178,400	186,803	195,644	204,942
Water Quality Compliance	-	-	-	86,000	88,300	165,900	170,300	175,679	181,236	186,976
System Planning	-	-	276,300	456,900	299,500	311,700	324,500	343,969	364,616	386,495
Stormwater Utility	-	-	54,200	28,200	29,400	275,100	63,600	67,416	71,463	75,751
Stormwater Program Administration	-	-	-	-	-	-	-	-	-	-
TOTAL OPERATING EXPENSES	295,495	304,700	780,100	1,064,100	888,200	1,269,300	1,091,700	1,143,413	1,197,895	1,256,067

Capital Outlays and Capital Improvement Plan

One of the key elements both in the current year cost of service and the City's forecast cost of service for the stormwater utility is the determination of the City's stormwater-related capital improvement plan. The City's stormwater CIP is summarized in **Table II-5** below and was provided by City staff and its consultants, Black and Veatch. It should be noted that this CIP may be subject to potentially significant revision based on changes in future circumstances. In other words, it represents the best estimate of future CIP expenses based on information available at the present time.

Capital outlays are those expenditures normally incurred by the stormwater utility to fund small-ticket capital items, such as computers or vehicles. The City has expressed a desire to fund the capital outlays through its ongoing rates while the Capital Improvement Plan will be funded through the issuance of debt.

Table II-5

CITY OF GOODYEAR		STORMWATER UTILITY CAPITAL IMPROVEMENT PLAN FY 2016 -- FY 2025									
SCENARIO:	2020 11 23-- Scenario I										
	Total	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Fire Station 188 West Goodyear	\$ 2,000,000	\$ -	\$ 200,000	\$ 1,800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Police Bldg Phase II	100,000	-	100,000	-	-	-	-	-	-	-	-
Enhance Bullard Landscape and Branding	80,000	-	80,000	-	-	-	-	-	-	-	-
Citrus Rd, I-20 to Thomas	2,000,000	-	-	-	200,000	-	1,800,000	-	-	-	-
Cotton Lane -- Estrella Pkwy to Cotton Lane	70,000	-	-	-	70,000	-	-	-	-	-	-
Cotton Lane and Estrella Pkwy	100,000	-	-	-	-	100,000	-	-	-	-	-
Estrella Pkwy-Vineyard Ave to MC85	150,000	-	-	150,000	-	-	-	-	-	-	-
Estrella Pkwy-Pebble Creek Pkwy and I-10	75,000	-	75,000	-	-	-	-	-	-	-	-
Lower Buckeye Rd and Sarival Ave	300,000	-	-	50,000	250,000	-	-	-	-	-	-
McDowell Rd and Citrus Rd Intersection	700,000	-	70,000	-	630,000	-	-	-	-	-	-
Sarival Ave Yuma Rd to Elmwood St	1,000,000	-	-	100,000	-	-	900,000	-	-	-	-
Yuma Rd, Canyon Trails to Sarival	115,000	-	-	-	-	50,000	65,000	-	-	-	-
Sarival Ave: Jefferson St to Yuma	225,000	-	-	25,000	200,000	-	-	-	-	-	-
Civic Square	750,000	-	750,000	-	-	-	-	-	-	-	-
Estrella Pkwy Widening -- Northbound	20,000	-	20,000	-	-	-	-	-	-	-	-
Goodyear Community Park Dog Park	15,000	-	-	15,000	-	-	-	-	-	-	-
Bulard Wash/Roadside Basins	4,770,000	-	-	-	-	1,590,000	1,590,000	1,590,000	-	-	-
Potential SW Project Placeholder	500,000	-	-	-	-	-	-	500,000	-	-	-
Total	12,970,000	-	1,295,000	2,140,000	1,350,000	1,740,000	4,355,000	2,090,000	-	-	-
Capital Outlays	300,900	188,600	-	-	58,600	44,400	9,300	-	-	-	-

Debt Service

The final element of the cost of service is debt principal and interest, to fund the long-term debt issued by the City to finance its stormwater utility capital improvement plan. At present, the City's stormwater utility fund carries no long-term debt. The City plans on issuing debt in FY 2021 for the amount of \$3,500,000, in FY 2023 for the amount of \$3,000,000, and in FY 2025 for the amount of \$6,500,000 to help fund the capital improvement plan. The City's annual debt service is summarized in **Table II-6** below.

Table II-6

CITY OF GOODYEAR		STORMWATER UTILITY DEBT SERVICE FY 2020 -- FY 2029									
SCENARIO:	2020 11 23– Scenario I										
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
Debt Service - Current	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Debt Service - Future	-	-	235,255	235,255	436,902	436,902	873,804	873,804	873,804	873,804	
Total Debt Service	-	-	235,255	235,255	436,902	436,902	873,804	873,804	873,804	873,804	

Forecast Cost of Service

Table II-7 presents a summary of the forecast stormwater utility cost of service for the next ten years. Details behind the calculation, including the forecast of expenses by line item, can be found in the stormwater utility model presented in Appendix A. The following is notable about this forecast:

- The forecast assumes that total accounts and square footage will increase at rates presented in Table II-3.
- The forecast assumes that most operating expenses increase at a rate of approximately 3.0% per year.
- Certain expenses, such as benefits, are assumed to increase at a higher annual rate, in accordance with actual performance and recent history.
- Additional needed operational and personnel expenses were developed by Black and Veatch and reviewed by City staff. Willdan incorporated these additional expenses into the development of the rate plan.
- The City is forecast to fund all identified capital outlays through rates whereas the capital improvement program is funded through issuance of debt.
- The table reveals that FY 2020 cost of service is calculated to be **\$484,095**. It is forecast to increase to **\$2,128,871** by FY 2029.

Table II-7

CITY OF GOODYEAR						
CURRENT AND FORECAST NET REVENUE REQUIREMENT						
SCENARIO: 2020 11 23-- Scenario I						
	Operating Expenses	Capital Outlays	Total Debt Service	Total Cost of Service	Less Non-Rate Revenues	Net Revenue Requirement
STORMWATER Utility Revenue Requirement						
2020	\$ 295,495	\$ 188,600	\$ -	\$ 484,095	\$ -	\$ 484,095
2021	304,700	-	-	304,700	-	304,700
2022	780,100	-	235,255	1,015,355	-	1,015,355
2023	1,064,100	58,600	235,255	1,357,955	-	1,357,955
2024	888,200	44,400	436,902	1,369,502	-	1,369,502
2025	1,269,300	9,300	436,902	1,715,502	-	1,715,502
2026	1,091,700	-	873,804	1,965,504	-	1,965,504
2027	1,143,413	-	873,804	2,017,217	-	2,017,217
2028	1,197,895	-	873,804	2,071,699	-	2,071,699
2029	1,255,067	-	873,804	2,128,871	-	2,128,871

Table II-8 presents the total net revenue requirement for each customer class. Details behind these calculations can be found in the stormwater utility model presented in Appendix A.

Table II-8

CITY OF GOODYEAR					
CURRENT AND FORECAST NET REVENUE REQUIREMENT					
SCENARIO: 2020 11 23-- Scenario I					
	Net Revenue Requirement	Cust. Class Allocations		Net Revenue Rqmt.	
		Residential	Non-Residential	Residential	Non-Residential
STORMWATER Utility Revenue Requirement					
2020	\$ 484,095	69.3%	30.7%	\$ 335,330	\$ 148,765
2021	304,700	69.3%	30.7%	211,026	93,674
2022	1,015,355	69.3%	30.7%	703,271	312,084
2023	1,357,955	69.3%	30.7%	940,394	417,561
2024	1,369,502	69.3%	30.7%	948,467	421,035
2025	1,715,502	69.2%	30.8%	1,187,898	527,604
2026	1,965,504	69.2%	30.8%	1,360,482	605,022
2027	2,017,217	69.2%	30.8%	1,396,126	621,091
2028	2,071,699	69.2%	30.8%	1,433,406	638,293
2029	2,128,871	69.2%	30.8%	1,472,932	655,939

Step 4 – Proposed Stormwater Utility Monthly Fee

The final step in the determination of stormwater utility fees involves the calculation of the monthly fee per account. The project team recommends offering two categories of fees, for residential and non-residential accounts. The standard should be the ratio of average square footage by range category, as shown in **Table II-9**.

Table II-9

CITY OF GOODYEAR SQUARE FOOTAGE EQUIVALENT CALCULATION			
Low	Square Footage Range		Multiplier
	High	Average	
-	2,499	1,250	-
2,500	4,999	3,750	3.0
5,000	9,999	7,500	6.0
10,000	19,999	15,000	12.0
20,000	29,999	25,000	20.0
30,000	39,999	35,000	28.0
40,000	Above	50,000	40.0

Fees are recommended to be assessed for all active wastewater accounts within the city limits of Goodyear.

Table II-10 presents the project team's recommended stormwater monthly fee schedule for residential and non-residential customers under Scenario I. The following is notable about this schedule:

- The project team recommends that effective January 2021 or as soon as feasible the residential monthly fee be implemented at **\$1.00** per month.
- The project team recommends phasing in over a 6-year period a non-residential monthly fee tied to the general size of the property, rounded up to the highest acre.
- The initial fee for non-residential fees per acre is recommended to be **\$4.00** per month in January 2021, and increase to \$15.00 by January 2026.
- The fee structure is consistent with the project team's knowledge of stormwater fees for other utilities. It is recommended that the City in the future, when sufficient data is tabulated, should consider converting non-residential accounts to be based on impervious surface data.

Table II-10

CITY OF GOODYEAR																			
RECOMMENDED STORMWATER MONTHLY CHARGES																			
SCENARIO: 2020 11 23-- Scenario I																			
	Jan-21	Jan-22	Jan-23	Jan-24	Jan-25	Jan-26	Jan-27	Jan-28	Jan-29										
STORMWATER Utility Monthly Charge																			
Residential	\$	1.00	\$	2.00	\$	2.50	\$	2.50	\$	3.50	\$	3.75	\$	3.75	\$	3.75	\$	3.75	
Per Account																			
Commercial		4.00		8.00		10.00		10.00		14.00		15.00		15.00		15.00		15.00	
Per Acre																			
Acres																			
1		4.00		8.00		10.00		10.00		14.00		15.00		15.00		15.00		15.00	
3		12.00		24.00		30.00		30.00		42.00		45.00		45.00		45.00		45.00	
5		20.00		40.00		50.00		50.00		70.00		75.00		75.00		75.00		75.00	
10		40.00		80.00		100.00		100.00		140.00		150.00		150.00		150.00		150.00	
20		80.00		160.00		200.00		200.00		280.00		300.00		300.00		300.00		300.00	
50		200.00		400.00		500.00		500.00		700.00		750.00		750.00		750.00		750.00	
100		400.00		800.00		1,000.00		1,000.00		1,400.00		1,500.00		1,500.00		1,500.00		1,500.00	
150		600.00		1,200.00		1,500.00		1,500.00		2,100.00		2,250.00		2,250.00		2,250.00		2,250.00	



Table II-11 summarizes the stormwater utility revenue by customer class, total expenses and net revenues over the next decade under Scenario I. This forecast is presented in detail in **Appendix A**. The forecast reveals that with the recommended monthly fees the stormwater utility is projected to have sufficient revenues to fund all expenses throughout the forecast period.

As indicated earlier, this revenue, expense and net revenue forecast is based on a series of assumptions about future conditions both nation-wide and in the City of Goodyear. It is not a guarantee of future behavior, and it is subject to potentially significant revision should there be material changes to conditions either within or outside the City of Goodyear.

Table II-11

CITY OF GOODYEAR						
CURRENT AND FORECAST FEES AND REVENUE						
SCENARIO:	2020 11 23-- Scenario I					
	Forecast Revenue			Less	Net	
	Residential	Non-Residential	Total	Revenue Rqmt	Revenues	
2020	\$ 371,292	\$ 156,065	\$ 527,357	\$ 484,095	\$ 43,262	
2021	382,428	155,520	537,948	304,700	233,248	
2022	754,975	303,324	1,058,299	1,015,355	42,944	
2023	997,395	396,244	1,393,639	1,357,955	35,684	
2024	1,044,720	410,040	1,454,760	1,369,502	85,258	
2025	1,470,629	570,720	2,041,349	1,715,502	325,847	
2026	1,653,289	634,376	2,287,665	1,965,504	322,161	
2027	1,712,385	649,440	2,361,825	2,017,217	344,608	
2028	1,763,775	661,680	2,425,455	2,071,699	353,756	
2029	1,816,695	675,360	2,492,055	2,128,871	363,184	



City of Goodyear Stormwater Fee Analysis Fiscal Years 2019 - 2028



Utility System

Stormwater

Dashboard

Projections

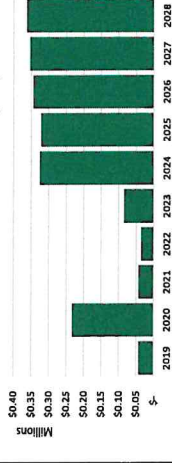
Customer Class

All Classes

Years

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028

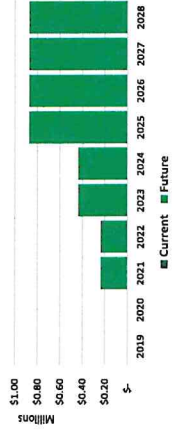
Net Revenues Available for Contingency



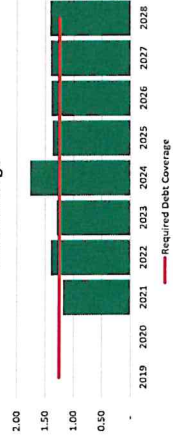
Total Revenues



Debt Service



Debt Coverage



Future Debt Term

Year	Alternative	Proposed
2019	\$ -	\$ -
2020	\$ -	\$ 3,500,000
2021	\$ -	\$ -
2022	\$ -	\$ 3,000,000
2023	\$ -	\$ -
2024	\$ -	\$ 6,500,000
2025	\$ -	\$ -
2026	\$ -	\$ -
2027	\$ -	\$ -
2028	\$ -	\$ -

Stormwater Projections

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

**Forecast Summary
Scenario: 2020 11 23-- Scenario I**

	Current	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
1 Stormwater Monthly Fees											
Residential Per Account	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 2.50	\$ 2.50	\$ 3.50	\$ 3.75	\$ 3.75	\$ 3.75	\$ 3.75
Non-Residential Per Acre	5.00	4.00	4.00	8.00	10.00	10.00	14.00	15.00	15.00	15.00	15.00
2 Stormwater Accounts											
Residential	30,941	30,841	31,869	32,825	33,810	34,824	35,869	36,945	38,053	39,195	40,371
Non-Residential	523	523	539	555	572	589	607	626	645	665	685
Other	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-
	31,464	31,464	32,408	33,380	34,382	35,413	36,476	37,571	38,698	39,860	41,056
3 Forecast Annual Stormwater Fund Balance											
Beginning Fund Balance	\$ -	\$ -	\$ 43,262	\$ 276,510	\$ 319,454	\$ 355,138	\$ 440,396	\$ 766,243	\$ 1,088,403	\$ 1,433,011	\$ 1,786,767
Revenues											
Stormwater Fees	527,357	537,948	1,058,299	1,393,639	1,454,760	1,454,760	2,041,349	2,287,665	2,361,825	2,425,455	2,492,055
Non-Fee Revenues	527,357	537,948	1,058,299	1,393,639	1,454,760	1,454,760	2,041,349	2,287,665	2,361,825	2,425,455	2,492,055
Total Revenues	527,357	537,948	1,058,299	1,393,639	1,454,760	1,454,760	2,041,349	2,287,665	2,361,825	2,425,455	2,492,055
Operating Expenses											
SW Program Management	295,495	304,700	314,100	323,800	333,800	344,200	354,900	369,547	384,936	400,902	400,902
System Maintenance	-	-	135,500	169,200	186,200	137,200	172,400	178,400	186,803	195,644	204,942
Water Quality Compliance	-	-	-	86,000	86,000	86,300	165,900	170,300	175,679	181,238	186,376
System Planning	-	-	276,300	456,900	299,500	311,700	324,500	343,969	364,616	386,495	386,495
Stormwater Utility	-	-	54,200	28,200	29,400	29,400	275,100	63,600	67,416	71,463	75,751
Total Operating	295,495	304,700	780,100	1,064,100	888,200	888,200	1,269,300	1,091,700	1,143,413	1,197,895	1,255,067
Net Revenues for Non-Dept, Cap Outlays, Debt Ser	231,862	233,248	278,199	329,539	566,560	772,049	1,195,965	1,218,412	1,227,560	1,236,988	1,236,988
Capital Outlays	188,600	-	-	56,600	-	44,400	9,300	-	-	-	-
Debt Service - Current	-	-	-	-	-	-	-	-	-	-	-
Debt Service - Future	-	-	235,255	235,255	436,902	436,902	436,902	873,804	873,804	873,804	873,804
Total Cost of Service	484,095	304,700	1,015,355	1,357,955	1,369,502	1,715,502	1,965,504	2,017,217	2,071,699	2,128,871	2,128,871
Net Revenues for Contingency/Fund Balance	43,262	233,248	42,944	35,684	85,258	325,847	322,161	344,608	353,756	363,184	363,184
	8.2%	43.4%	4.1%	2.6%	5.9%	16.0%	14.1%	14.6%	14.6%	14.6%	14.6%
Ending Fund Balance	43,262	276,510	319,454	355,138	440,396	766,243	1,088,403	1,433,011	1,786,767	2,149,951	2,149,951
Financial Ratios											
Days of Operating Expenses	53	331	149	122	181	220	364	457	544	625	625
Days of Total Expenses	33	331	115	95	117	163	202	259	315	369	369
Debt Coverage	-	-	1.18	1.40	1.30	1.77	1.37	1.39	1.40	1.40	1.42



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

**Input Area – Rate Calcula
Scenario: 2020 11 23– I**

Stormwater Monthly Fee	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Date Rate In effect (October = 1)	1	1	1	1	1	1	1	1	1	1

Calculated Monthly Fee

Monthly Stormwater Fee Per Acco Residential	\$ 0.90	\$ 1.00	\$ 1.79	\$ 2.32	\$ 2.27	\$ 2.76	\$ 3.07	\$ 3.06	\$ 3.05	\$ 3.04
Monthly Stormwater Fee Per Acre Non-Residential	4.27	2.69	8.70	11.30	11.06	13.46	14.98	14.91	14.87	14.82

Recommended Monthly Fee

Residential Per Account	\$ 1.00	\$ 1.00	\$ 2.00	\$ 2.50	\$ 2.50	\$ 3.50	\$ 3.75	\$ 3.75	\$ 3.75	\$ 3.75
Non-Residential Per Acre	5.00	4.00	8.00	10.00	10.00	14.00	15.00	15.00	15.00	15.00

Summary of Results – Rate Calc

Rate Revenue

Residential	\$ 371,292	\$ 382,428	\$ 754,975	\$ 997,395	\$ 1,044,720	\$ 1,470,629	\$ 1,653,289	\$ 1,712,385	\$ 1,763,775	\$ 1,816,695
Non-Residential Per Acre	\$ 155,065	\$ 155,520	\$ 303,324	\$ 396,244	\$ 410,040	\$ 570,720	\$ 634,376	\$ 649,440	\$ 661,680	\$ 675,360



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Input Area – Rate Calcula
Scenario: 2020 11 23– I

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total Rate Revenues	527,357	537,948	1,058,299	1,393,639	1,454,760	2,041,349	2,287,665	2,361,825	2,425,455	2,492,055
Revenues to be Raised from Rates										
Residential	\$ 335,330	\$ 211,026	\$ 703,271	\$ 940,394	\$ 948,467	\$ 1,187,898	\$ 1,360,482	\$ 1,396,126	\$ 1,433,406	\$ 1,472,932
Non-Residential	148,765	93,674	312,084	417,561	421,035	527,604	605,022	621,091	638,293	655,939
Total	484,095	304,700	1,015,355	1,357,955	1,369,502	1,715,502	1,965,504	2,017,217	2,071,699	2,128,871
Net Revenues Available for Cont										
Residential	\$ 35,962	\$ 171,402	\$ 51,704	\$ 57,001	\$ 96,253	\$ 282,731	\$ 292,607	\$ 316,259	\$ 330,369	\$ 343,763
Non-Residential	7,300	61,846	(8,760)	(21,317)	(10,995)	43,116	29,354	28,349	23,367	19,421
TOTAL Net Revenues	43,262	233,248	42,944	35,684	85,258	325,847	322,161	344,608	353,756	363,184
Percent of Revenues	8.2%	43.4%	4.1%	2.6%	5.9%	16.0%	14.1%	14.6%	14.6%	14.6%
Debt Coverage	-	-	1.18	1.40	1.30	1.77	1.37	1.39	1.40	1.42

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Input Area -- Rate Calcula
Scenario: 2020 11 23-- I

Account Data	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total Accounts	30,941	31,869	32,825	33,810	34,824	35,869	36,945	38,053	39,195	40,371
Residential	246	254	262	270	278	286	295	304	313	323
Non-Residential	106	109	112	115	119	123	127	131	135	139
1	36	37	38	39	40	41	42	43	44	45
2	14	16	17	19	20	22	24	26	29	30
3	11	12	13	14	15	16	17	18	19	20
4	16	16	17	18	19	20	21	22	23	24
5	10	10	10	10	10	10	10	10	10	10
6	5	5	5	5	5	5	5	5	5	5
7	7	7	7	7	7	7	7	7	7	7
8	3	3	3	3	3	3	3	3	3	3
9	5	5	5	5	5	5	5	5	5	5
10	3	3	3	3	3	3	3	3	3	3
11	3	3	3	3	3	3	3	3	3	3
12	3	3	3	3	3	3	3	3	3	3
13	3	3	3	3	3	3	3	3	3	3
14	13	13	13	13	13	13	13	13	13	14
15	4	4	4	4	4	4	4	4	4	4
16	2	2	2	2	2	2	2	2	2	2
17	2	2	2	2	2	2	2	2	2	2
18	2	2	2	2	2	2	2	2	2	2
19	-	-	-	-	-	-	-	-	-	-
20	10	11	12	13	14	15	16	17	18	19
30	8	8	8	8	8	8	8	8	8	8
40	5	5	5	5	5	5	5	5	5	5
50	3	3	3	3	3	3	3	3	3	3
60	1	1	1	1	1	1	1	1	1	1
70	1	1	1	1	1	1	1	1	1	1
80	-	-	-	-	-	-	-	-	-	-
90	-	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-	-
140	2	2	2	2	2	2	2	2	2	2
150	-	-	-	-	-	-	-	-	-	-
160	1	1	1	1	1	1	1	1	1	1
170	-	-	-	-	-	-	-	-	-	-
180	-	-	-	-	-	-	-	-	-	-
190	1	1	1	1	1	1	1	1	1	1
200	-	-	-	-	-	-	-	-	-	-
Total	523	539	555	572	589	607	626	645	665	685
Total Accounts	31,464	32,408	33,380	34,382	35,413	36,476	37,571	38,698	39,860	41,056



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Input Area - Rate Calcula
Scenario: 2020 11 23- I

Total Monthly Billing Units

	Current	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential Accounts		371,292	382,428	393,900	405,720	417,888	430,428	443,340	456,636	470,340	484,452
Non-Residential Acres		2,952	3,048	3,144	3,240	3,336	3,432	3,540	3,648	3,756	3,876
1	1.0	2,544	2,616	2,688	2,760	2,856	2,952	3,048	3,144	3,240	3,336
2	2.0	1,296	1,332	1,368	1,404	1,440	1,476	1,512	1,548	1,584	1,620
3	3.0	672	768	816	912	960	1,056	1,152	1,248	1,392	1,440
4	4.0	660	720	780	840	900	960	1,020	1,080	1,140	1,200
5	5.0	1,152	1,152	1,224	1,296	1,368	1,440	1,512	1,584	1,656	1,728
6	6.0	840	840	840	840	840	840	840	840	840	840
7	7.0	480	480	480	480	480	480	480	480	480	480
8	8.0	480	480	480	480	480	480	480	480	480	480
9	9.0	756	756	756	756	756	756	756	756	756	756
10	10.0	360	360	360	360	360	360	360	360	360	360
11	11.0	660	660	660	660	660	660	660	660	660	660
12	12.0	432	432	432	432	432	432	432	432	432	432
13	13.0	468	468	468	468	468	468	468	468	468	468
14	14.0	504	504	504	504	504	504	504	504	504	504
15	15.0	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340
16	16.0	768	768	768	768	768	768	768	768	768	768
17	17.0	408	408	408	408	408	408	408	408	408	408
18	18.0	432	432	432	432	432	432	432	432	432	432
19	19.0	456	456	456	456	456	456	456	456	456	456
20	20.0	-	-	-	-	-	-	-	-	-	-
20	25.0	3,000	3,300	3,600	3,900	4,200	4,500	4,800	5,100	5,400	5,700
30	35.0	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360
40	45.0	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700
50	55.0	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980
60	65.0	780	780	780	780	780	780	780	780	780	780
70	75.0	900	900	900	900	900	900	900	900	900	900
80	85.0	-	-	-	-	-	-	-	-	-	-
90	95.0	-	-	-	-	-	-	-	-	-	-
100	105.0	-	-	-	-	-	-	-	-	-	-
110	115.0	-	-	-	-	-	-	-	-	-	-
120	125.0	-	-	-	-	-	-	-	-	-	-
130	135.0	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240
140	145.0	-	-	-	-	-	-	-	-	-	-
150	155.0	1,860	1,860	1,860	1,860	1,860	1,860	1,860	1,860	1,860	1,860
160	165.0	-	-	-	-	-	-	-	-	-	-
170	175.0	-	-	-	-	-	-	-	-	-	-
180	185.0	-	-	-	-	-	-	-	-	-	-
190	195.0	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220
Total		38,220	36,860	39,564	40,296	41,004	41,760	42,528	43,296	44,112	45,024



**10 Year Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Test Year 2020 Forecast 2021 2022 2023 2024 2025 2026 2027 2028 2029

Forecast SW 1.0 – STORMWATER Department Revenue Requirement Raised from Rates Scenario. 2020 11 23 – Scenario 1

NON-FEE REVENUES

Charges for Service (non-rate)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Interest Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Storm Water Revenue	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

OPERATING EXPENSES

SW Program Management

Personnel	\$ 140,545	\$ 144,200	\$ 147,900	\$ 151,700	\$ 155,600	\$ 159,600	\$ 163,700	\$ 168,611	\$ 173,669	\$ 178,879
Full Time Wages	-	-	-	-	-	-	-	-	-	-
Longevity	-	-	-	-	-	-	-	-	-	-
Social Security	-	-	-	-	-	-	-	-	-	-
Medicare	-	-	-	-	-	-	-	-	-	-
ASRS	-	-	-	-	-	-	-	-	-	-
Workers Compensation	-	-	-	-	-	-	-	-	-	-
Health Insurance	18,724	19,300	19,900	20,600	21,300	22,000	22,700	24,516	26,477	28,595
Dental Insurance	-	-	-	-	-	-	-	-	-	-
Life Insurance	-	-	-	-	-	-	-	-	-	-
Other Benefits	31,538	32,600	33,700	34,800	35,900	37,100	38,300	41,364	44,673	48,247
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	\$ 190,807	\$ 196,100	\$ 201,500	\$ 207,100	\$ 212,800	\$ 218,700	\$ 224,700	\$ 234,491	\$ 244,820	\$ 255,722

Contractual

Other Professional Service	\$ 75,000	\$ 78,100	\$ 81,300	\$ 84,600	\$ 88,100	\$ 91,700	\$ 95,500	\$ 98,365	\$ 101,316	\$ 104,355
Uniform Services	500	500	500	500	500	500	500	515	530	546
Permitting Fees	5,000	5,200	5,400	5,600	5,800	6,000	6,200	6,572	6,966	7,175
Telecommunications and Data	3,050	3,200	3,300	3,400	3,500	3,600	3,700	3,922	4,157	4,407
Vehicle Repairs	2,338	2,400	2,500	2,600	2,700	2,800	2,900	3,074	3,259	3,454
Liability Insurance	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,080	1,166	1,260
Employee Training and Dev	4,825	5,000	5,200	5,400	5,600	5,800	6,000	6,360	6,742	7,146
Dues & Memberships	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,193	3,289	3,387
Meeting Expense	100	100	100	100	100	100	100	103	106	109
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	\$ 94,313	\$ 98,100	\$ 102,000	\$ 106,000	\$ 110,200	\$ 114,500	\$ 119,000	\$ 123,184	\$ 127,532	\$ 131,841

Commodities

Personal Protective Equip	\$ 800	\$ 800	\$ 800	\$ 800	\$ 800	\$ 800	\$ 800	\$ 848	\$ 899	\$ 953
Fuel	4,550	4,600	4,700	4,800	4,900	5,100	5,300	5,618	5,955	6,313
Vehicle Parts	2,225	2,300	2,300	2,300	2,300	2,300	2,300	2,438	2,584	2,739
Car Wash	100	100	100	100	100	100	100	106	112	119
Equip < \$5,000	200	200	200	200	200	200	200	212	225	238



**10 Year Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Test Year Forecast
2020 2021 2022 2023 2024 2025 2026 2027 2028 2029

**Forecast SW 1.0 – STORMWATER Department Revenue Requirement Raised from Rates
Scenario. 2020 11 23– Scenario 1**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Equip Other < \$5,000	500	500	500	500	500	500	500	530	562	596
Misc Supplies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,120	2,247	2,382
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	10,375	10,500	10,600	10,700	10,800	11,000	11,200	11,872	12,585	13,340

TOTAL	\$ 295,695	\$ 304,700	\$ 314,100	\$ 323,800	\$ 333,800	\$ 344,200	\$ 354,900	\$ 369,547	\$ 384,936	\$ 400,902
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System Maintenance

Personnel	-	-	-	-	67,400	69,300	71,200	73,336	75,536	77,802
Contractual	-	-	135,500	169,200	64,500	97,700	101,700	107,802	114,273	121,130
Commodities	-	-	-	-	5,300	5,400	5,500	5,665	5,835	6,010
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ 135,500	\$ 169,200	\$ 137,200	\$ 172,400	\$ 179,400	\$ 186,803	\$ 195,644	\$ 204,942

Water Quality Compliance

Personnel	-	-	-	65,600	67,400	141,800	145,700	150,071	154,573	159,210
Contractual	-	-	-	5,500	8,700	9,000	9,540	10,113	10,719	11,319
Commodities	-	-	-	14,900	15,100	15,400	15,800	16,068	16,550	17,047
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ -	\$ 86,000	\$ 86,300	\$ 165,900	\$ 170,300	\$ 175,679	\$ 181,236	\$ 186,976

System Planning

Personnel	-	-	276,300	456,900	299,500	311,700	324,500	343,969	364,616	386,495
Contractual	-	-	-	-	-	-	-	-	-	-
Commodities	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ 276,300	\$ 456,900	\$ 299,500	\$ 311,700	\$ 324,500	\$ 343,969	\$ 364,616	\$ 386,495

Stormwater Utility

Personnel	-	-	54,200	28,200	29,400	275,100	63,600	67,416	71,463	75,751
Contractual	-	-	-	-	-	-	-	-	-	-
Commodities	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ -	\$ 54,200	\$ 28,200	\$ 29,400	\$ 275,100	\$ 63,600	\$ 67,416	\$ 71,463	\$ 75,751



**10 Year Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

**Forecast SW 1.0 – STORMWATER Department Revenue Requirement Raised from Rates
Scenario: 2020 11 23– Scenario I**

	Test Year 2020	Forecast 2021	2022	2023	2024	2025	2026	2027	2028	2029
Stormwater Program Administration										
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contractual	-	-	-	-	-	-	-	-	-	-
Commodities	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
TOTAL	\$ 295,495	\$ 304,700	\$ 780,100	\$ 1,064,100	\$ 888,200	\$ 1,269,300	\$ 1,091,700	\$ 1,143,413	\$ 1,197,895	\$ 1,255,067
TOTAL OPERATING EXPENSES	\$ 295,495	\$ 304,700	\$ 780,100	\$ 1,064,100	\$ 888,200	\$ 1,269,300	\$ 1,091,700	\$ 1,143,413	\$ 1,197,895	\$ 1,255,067
CAPITAL OUTLAYS										
Capital Outlay	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SW Pgm Mgmt – Other Prof Svcs	150,000	-	-	-	-	-	-	-	-	-
SW Pgm Mgmt – Equip < \$5,000	3,600	-	-	-	-	-	-	-	-	-
SW Pgm Mgmt – Equip Other < \$5,000	35,000	-	-	-	-	-	-	-	-	-
System Maintenance	-	-	-	44,400	-	-	-	-	-	-
Water Quality Compliance	-	-	-	58,600	-	9,300	-	-	-	-
System Planning	-	-	-	-	-	-	-	-	-	-
Stormwater Utility	-	-	-	-	-	-	-	-	-	-
Stormwater Pgm Admin	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-
TOTAL CAPITAL OUTLAYS	\$ 188,600	\$ -	\$ -	\$ 58,600	\$ 44,400	\$ 9,300	\$ -	\$ -	\$ -	\$ -
TOTAL OPERATING/CAPITAL OUTLAYS	\$ 484,095	\$ 304,700	\$ 780,100	\$ 1,122,700	\$ 932,600	\$ 1,278,600	\$ 1,091,700	\$ 1,143,413	\$ 1,197,895	\$ 1,255,067



**10 Year Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

**Forecast SW 1.0 – STORMWATER Department Revenue Requirement Raised from Rates
Scenario 2020 11 23 – Scenario 1**

	Test Year 2020	Forecast 2021	2022	2023	2024	2025	2026	2027	2028	2029
DEBT SERVICE										
Current Debt Service:										
Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest	-	-	-	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-	-	-	-
Total Current Debt Service	-	-	-	-	-	-	-	-	-	-
Future Debt Service:										
Principal	\$ -	\$ -	\$ 130,255	\$ 134,163	\$ 249,835	\$ 257,330	\$ 506,952	\$ 522,160	\$ 537,825	\$ 553,960
Interest	-	-	105,000	101,092	187,067	179,572	366,653	351,644	335,979	319,844
Reserve	-	-	-	-	-	-	-	-	-	-
Total Future Debt Service	-	-	235,255	235,255	436,902	436,902	873,804	873,804	873,804	873,804
TOTAL DEBT SERVICE	\$ -	\$ -	\$ 235,255	\$ 235,255	\$ 436,902	\$ 436,902	\$ 873,804	\$ 873,804	\$ 873,804	\$ 873,804
TOTAL COST OF SERVICE										
TOTAL	\$ 484,085	\$ 304,700	\$ 1,015,355	\$ 1,357,855	\$ 1,369,502	\$ 1,715,502	\$ 1,965,504	\$ 2,017,217	\$ 2,071,699	\$ 2,128,871



**10 Year Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Forecast SW 2.0 -- CASH BASIS Water Cost of Service by Customer Class
Scenario: 2020 11 23-- Scenario I

I. Total Cost of Service -- Cash Basis

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total Cost of Service										
Operating	\$ 295,495	\$ 304,700	\$ 780,100	\$ 1,064,100	\$ 888,200	\$ 1,269,300	\$ 1,091,700	\$ 1,143,413	\$ 1,197,895	\$ 1,255,067
Capital Outlays	188,600	-	-	58,600	44,400	9,300	-	-	-	-
Debt Service	-	-	235,255	235,255	436,902	436,902	873,804	873,804	873,804	873,804
Total Cost of Service	484,095	304,700	1,015,355	1,357,955	1,369,502	1,715,502	1,965,504	2,017,217	2,071,699	2,128,871
Less Non-Rate Revenues	-	-	-	-	-	-	-	-	-	-
Net Revenues Raised from Rates	484,095	304,700	1,015,355	1,357,955	1,369,502	1,715,502	1,965,504	2,017,217	2,071,699	2,128,871

II. Cost of Service by Customer Class

Acreage	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total (Acreage)										
Residential	6,539	6,539	6,735	6,937	7,145	7,359	7,580	7,808	8,042	8,283
Non-Residential	2,901	2,901	2,990	3,078	3,173	3,267	3,367	3,472	3,578	3,688
Total	9,440	9,440	9,725	10,015	10,318	10,626	10,947	11,280	11,619	11,972
Total (Square Feet)										
Residential	284,830,780	283,373,586	302,174,149	311,241,675	320,576,163	330,196,026	340,101,262	350,301,078	360,813,885	371,639,682
Non-Residential	126,361,304	130,227,042	134,092,780	138,200,126	142,307,472	146,656,427	151,246,991	155,837,555	160,669,727	165,501,899
Total	411,192,084	423,600,627	436,266,928	449,441,801	462,883,636	476,852,453	491,348,253	506,138,633	521,483,611	537,141,581
Percent										
Residential	69.27%	69.26%	69.26%	69.25%	69.26%	69.24%	69.22%	69.21%	69.19%	69.19%
Non-Residential	30.73%	30.74%	30.74%	30.75%	30.74%	30.76%	30.78%	30.79%	30.81%	30.81%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%



**10 Year Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Forecast SW 2.0 -- CASH BASIS Water Cost of Service by Customer Class

Scenario: 2020 11 23-- Scenario I

Stormwater Revenue Requirement by Customer Class

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Net Revenues Raised from Rates										
Residential	\$ 335,330	\$ 211,026	\$ 703,271	\$ 940,394	\$ 948,467	\$ 1,187,898	\$ 1,360,482	\$ 1,396,126	\$ 1,433,406	\$ 1,472,932
Non-Residential	148,765	93,674	312,084	417,561	421,035	527,604	605,022	621,091	638,293	655,939
Total	484,095	304,700	1,015,355	1,357,955	1,369,502	1,715,502	1,965,504	2,017,217	2,071,699	2,128,871

II. Monthly Stormwater Fee Per Account

Total Accounts										
Residential	30,941	31,869	32,825	33,810	34,824	35,869	36,945	38,053	39,195	40,371
Non-Residential	523	539	555	572	589	607	626	645	665	685
Total	31,464	32,408	33,380	34,382	35,413	36,476	37,571	38,698	39,860	41,056

Monthly Stormwater Fee Per Account

Residential	\$ 0.90	\$ 0.55	\$ 1.79	\$ 2.32	\$ 2.27	\$ 2.76	\$ 3.07	\$ 3.06	\$ 3.05	\$ 3.04
Total Per Acre	\$ 4.27	\$ 2.61	\$ 8.45	\$ 10.97	\$ 10.74	\$ 13.06	\$ 14.52	\$ 14.47	\$ 14.42	\$ 14.39



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

ACREAGE CALCULATIONS

Total Accounts Total Acres Square Feet Acres

43,560

Residential	Low	High	Average	Total Accounts	Percent	Square Feet	Acres
	2,499	1,250	79	0.3%	98,711	2.27	
	2,500	3,750	2,374	7.7%	8,901,313	204.35	
	5,000	9,999	22,418	72.5%	168,123,791	3,859.59	
	10,000	19,999	5,148	16.6%	77,217,426	1,772.67	
	20,000	29,999	178	0.6%	4,449,811	102.16	
	30,000	39,999	744	2.4%	26,039,628	597.79	
	40,000	Above	30,941	0.0%	-	-	
				100.0%	284,830,780	6,538.81	
					9,206	0.21	
					Per Account		

Non-Residential	Low	High	Average	Total Accounts	Percent	Square Feet	Acres
1	1	246	47.0%	3,218,572	73.89		
2	105	6,697,818	20.3%	153,76	153.76		
3	36	3,960,767	6.9%	3,960,767	90.93		
4	14	2,166,391	2.7%	2,166,391	49.73		
5	11	2,138,019	2.1%	2,138,019	49.08		
6	16	3,784,530	3.1%	3,784,530	86.88		
7	10	2,819,008	1.9%	2,819,008	64.72		
8	5	1,635,429	1.0%	1,635,429	37.54		
9	7	2,614,191	1.3%	2,614,191	60.01		
10	3	1,261,292	0.6%	1,261,292	28.96		
11	5	2,252,888	1.0%	2,252,888	51.72		
12	3	1,478,899	0.6%	1,478,899	33.95		
13	3	1,649,690	0.6%	1,649,690	37.87		
14	3	1,745,713	0.6%	1,745,713	40.09		
15	13	8,248,905	2.5%	8,248,905	189.37		
16	4	2,636,186	0.8%	2,636,186	60.52		
17	2	1,436,481	0.4%	1,436,481	32.99		
18	2	1,511,531	0.4%	1,511,531	34.70		
19	2	1,618,338	0.4%	1,618,338	37.15		
20	2	-	0.0%	-	-		
30	10	10,750,251	1.9%	10,750,251	246.79		
40	8	12,217,126	1.5%	12,217,126	280.47		
50	5	10,309,956	1.0%	10,309,956	236.68		
60	3	7,117,169	0.6%	7,117,169	163.39		
70	1	3,028,179	0.2%	3,028,179	69.52		
80	1	3,194,179	0.2%	3,194,179	73.33		
90	-	-	0.0%	-	-		
100	-	-	0.0%	-	-		
110	-	-	0.0%	-	-		
120	-	-	0.0%	-	-		
130	-	-	0.0%	-	-		
140	2	11,910,316	0.4%	11,910,316	273.42		
150	-	-	0.0%	-	-		
160	1	6,781,925	0.2%	6,781,925	155.23		
170	-	-	0.0%	-	-		
180	-	-	0.0%	-	-		
190	1	8,197,542	0.2%	8,197,542	188.19		
200	-	-	0.0%	-	-		
	523	126,361,304	100.0%	126,361,304	2,900.86		
				Per Account	241,609	5.55	



**10 Year Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Input Area	Forecast 2021	2022	2023	2024	2025	2026	2027	2028	2029
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**Input Area -- Forecast Accounts and Acreage
Scenario: 2020 11 23-- Scenario I**

Forecast Accounts

New Accounts

Residential	2021	2022	2023	2024	2025	2026	2027	2028	2029
2,499	2	2	3	3	3	3	3	3	3
4,999	71	73	76	78	80	83	85	88	90
5,000	672	693	714	735	757	780	803	827	852
10,000	154	159	164	169	174	179	184	190	196
20,000	5	5	6	6	6	6	6	7	7
29,999	22	23	24	24	25	26	27	27	28
30,000	-	-	-	-	-	-	-	-	-
39,999	-	-	-	-	-	-	-	-	-
40,000	-	-	-	-	-	-	-	-	-
Above	-	-	-	-	-	-	-	-	-
Total	928	956	985	1,014	1,045	1,076	1,108	1,142	1,176
		3.0%	3.0%	2.9%	3.1%	3.0%	3.0%	3.1%	3.0%

Non-Residential

1	8	8	8	8	8	9	9	9	10
2	3	3	3	4	4	4	4	4	4
3	1	1	1	1	1	1	1	1	1
4	2	1	2	1	2	2	2	3	1
5	1	1	1	1	1	1	1	1	1
6	-	1	1	1	1	1	1	1	1
7	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	1
16	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-
30	1	1	1	1	1	1	1	1	1
40	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-	-
90	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-
140	-	-	-	-	-	-	-	-	-
150	-	-	-	-	-	-	-	-	-
160	-	-	-	-	-	-	-	-	-
170	-	-	-	-	-	-	-	-	-



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

**10 Year Forecast
2020-2029**

Input Area	Test Year 2020	Forecast 2021	2022	2023	2024	2025	2026	2027	2028	2029
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**Input Area -- Forecast Accounts and Acreage
Scenario: 2020 11 23-- Scenario I**

Non-Residential										
1	246	254	262	270	278	286	295	304	313	323
2	106	109	112	115	119	123	127	131	135	139
3	36	37	38	39	40	41	42	43	44	45
4	14	16	17	19	20	22	24	26	29	30
5	11	12	13	14	15	16	17	18	19	20
6	16	16	17	18	19	20	21	22	23	24
7	10	10	10	10	10	10	10	10	10	10
8	5	5	5	5	5	5	5	5	5	5
9	7	7	7	7	7	7	7	7	7	7
10	3	3	3	3	3	3	3	3	3	3
11	5	5	5	5	5	5	5	5	5	5
12	3	3	3	3	3	3	3	3	3	3
13	3	3	3	3	3	3	3	3	3	3
14	3	3	3	3	3	3	3	3	3	3
15	13	13	13	13	13	13	13	13	13	14
16	4	4	4	4	4	4	4	4	4	4
17	2	2	2	2	2	2	2	2	2	2
18	2	2	2	2	2	2	2	2	2	2
19	2	2	2	2	2	2	2	2	2	2
20	-	-	-	-	-	-	-	-	-	-
30	10	11	12	13	14	15	16	17	18	19
40	8	8	8	8	8	8	8	8	8	8
50	5	5	5	5	5	5	5	5	5	5
60	3	3	3	3	3	3	3	3	3	3
70	1	1	1	1	1	1	1	1	1	1
80	1	1	1	1	1	1	1	1	1	1
90	-	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-	-
140	2	2	2	2	2	2	2	2	2	2
150	-	-	-	-	-	-	-	-	-	-
160	1	1	1	1	1	1	1	1	1	1
170	-	-	-	-	-	-	-	-	-	-
180	-	-	-	-	-	-	-	-	-	-
190	1	1	1	1	1	1	1	1	1	1
200	-	-	-	-	-	-	-	-	-	-
Total	523	539	555	572	589	607	626	645	665	685

Total System	31,464	32,408	33,380	34,382	35,413	36,476	37,571	38,698	39,860	41,056
	0.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

Total Acreage



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

**10 Year Forecast
2020-2029**

	Input Area	Test Year 2020	Forecast 2021	2022	2023	2024	2025	2026	2027	2028	2029
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**Input Area -- Forecast Accounts and Acreage
Scenario: 2020 11 23-- Scenario I**

Square Feet/Acre	43,560										
Total City Acres											
Square Feet											
Total Square Feet Per Account											
Residential	9,206	9,206	9,206	9,206	9,206	9,206	9,206	9,206	9,206	9,206	9,206
Non-Residential	241,609	241,609	241,609	241,609	241,609	241,609	241,609	241,609	241,609	241,609	241,609
Total	250,815	250,815	250,815	250,815	250,815	250,815	250,815	250,815	250,815	250,815	250,815
Total Square Feet											
Residential	284,830,780	284,830,780	293,373,586	302,174,149	311,241,675	320,576,163	330,196,026	340,101,262	350,301,078	360,813,885	371,639,682
Non-Residential	126,361,304	126,361,304	130,227,042	134,092,780	138,200,126	142,307,472	146,656,427	151,246,991	155,837,555	160,669,727	165,501,899
Total	411,192,084	411,192,084	423,600,627	436,266,928	449,441,801	462,883,636	476,852,453	491,348,253	506,138,633	521,483,611	537,141,581
Total Acres											
Residential	6,539	6,539	6,937	7,145	7,359	7,580	7,808	8,042	8,283	8,532	8,799
Non-Residential	2,901	2,901	3,078	3,173	3,267	3,367	3,472	3,578	3,688	3,799	3,914
Total	9,440	9,440	10,015	10,318	10,626	10,947	11,280	11,619	11,972	12,331	12,713
Total City Acres											
Percent Residential and Non-Res	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Test Year
2020

	2021	2022	2023	2024	2025	2026	2027	2028	2029
Forecast Increase In:									
2021	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
2022	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
2023	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
2024	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
2025	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
2026	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
2027	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
2028	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
2029	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%

Input Area -- City Budget
Scenario: 2020 11 23-- Scenario I

INPUT VARIABLES

UTILITY:	CITY OF GOODYEAR
Test Year:	2020
Forecast Period:	2020-2029
Scenario:	2020 11 23-- Scenario I

ACCELERATORS

Salary Adjustment	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Inflation	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Expense Increase Premium	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Stormwater Account Growth	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

2700

NON-FEE REVENUES

Charges for Service (non-rate)	\$	\$	\$	\$	\$	\$	\$	\$	\$
Interest Income	-	-	-	-	-	-	-	-	-
Storm Water Revenue	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total Non-Rate Revenues	\$	\$	\$	\$	\$	\$	\$	\$	\$



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Test Year
2020

	2021	2022	2023	2024	2025	2026	2027	2028	2029
Forecast Increase In:									

Input Area -- City Budget
Scenario: 2020 11 23-- Scenario I
SW Program Management.

	2021	2022	2023	2024	2025	2026	2027	2028	2029
Personnel									
Full Time Wages	\$ 144,200	\$ 147,900	\$ 151,700	\$ 155,600	\$ 159,600	\$ 163,700			
Longevity	-	-	-	-	-	-			
Social Security	-	-	-	-	-	-			
Medicare	-	-	-	-	-	-			
ASRS	-	-	-	-	-	-			
Workers Compensation	19,300	19,900	20,600	21,300	22,000	22,700			
Health Insurance	-	-	-	-	-	-			
Dental Insurance	-	-	-	-	-	-			
Life Insurance	-	-	-	-	-	-			
Other Benefits	32,600	33,700	34,800	35,900	37,100	38,300			
Other	-	-	-	-	-	-			
Other	-	-	-	-	-	-			
Other	-	-	-	-	-	-			
Other	-	-	-	-	-	-			
Other	-	-	-	-	-	-			
Total	\$ 196,100	\$ 201,500	\$ 207,100	\$ 212,800	\$ 218,700	\$ 224,700			



Test Year
2020

CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL

	Total Budget	Total Adjustments	Rev Rqmt	Forecast Increase In:	2022	2023	2024	2025	2026	2027	2028	2029
Input Area – City Budget												
Scenario: 2020 11 23– Scenario I												
Contractual												
Other Professional Serv	\$ 75,000	\$ -	\$ 75,000	78,100	81,300	84,600	88,100	91,700	95,500	3.0%	3.0%	3.0%
Uniform Services	500	-	500	500	500	500	500	500	500	3.0%	3.0%	3.0%
Permitting Fees	5,000	-	5,000	5,200	5,400	5,600	5,800	6,000	6,200	6.0%	6.0%	6.0%
Telecommunications and Data	3,050	-	3,050	3,200	3,300	3,400	3,500	3,600	3,700	6.0%	6.0%	6.0%
Vehicle Repairs	2,338	-	2,338	2,400	2,500	2,600	2,700	2,800	2,900	6.0%	6.0%	6.0%
Liability Insurance	1,000	-	1,000	1,000	1,000	1,000	1,000	1,000	1,000	8.0%	8.0%	8.0%
Employee Training and Dev	4,825	-	4,825	5,000	5,200	5,400	5,600	5,800	6,000	6.0%	6.0%	6.0%
Dues & Memberships	2,500	-	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3.0%	3.0%	3.0%
Meeting Expense	100	-	100	100	100	100	100	100	100	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Total	\$ 94,313	\$ -	\$ 94,313	\$ 98,100	\$ 102,000	\$ 106,000	\$ 110,200	\$ 114,500	\$ 119,000	3.0%	3.0%	3.0%

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Test Year
2020

Forecast Increase in:

2021 2022 2023 2024 2025 2026 2027 2028 2029

Input Area – City Budget Scenario I

Commodities	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Personal Protective Equip	800	800	800	800	800	800	800	800	800	800
Fuel	4,600	4,700	4,800	4,900	5,100	5,300	5,300	5,300	5,300	5,300
Vehicle Parts	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300
Car Wash	100	100	100	100	100	100	100	100	100	100
Equip < \$5,000	200	200	200	200	200	200	200	200	200	200
Equip Other < \$5,000	500	500	500	500	500	500	500	500	500	500
Misc Supplies	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	10,375	10,600	10,700	10,800	11,000	11,000	11,200	11,200	11,200	11,200

SUB-TOTAL	\$ 295,495	\$ 314,100	\$ 323,800	\$ 333,800	\$ 344,200	\$ 344,200	\$ 354,900	\$ 354,900	\$ 354,900	\$ 354,900
		3%	3%	3%	3%	3%	3%	3%	3%	3%

System Maintenance

Commodities	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Personnel	-	-	-	-	-	69,300	71,200	71,200	71,200	71,200
Contractual	-	-	-	-	64,500	97,700	101,700	101,700	101,700	101,700
Commodities	-	135,500	169,200	5,300	5,400	5,400	5,500	5,500	5,500	5,500
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	\$ -	\$ 135,500	\$ 169,200	\$ 137,200	\$ 172,400	\$ 172,400	\$ 178,400	\$ 178,400	\$ 178,400	\$ 178,400

Water Quality Compliance

Commodities	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Personnel	-	-	-	-	67,400	141,800	145,700	145,700	145,700	145,700
Contractual	-	-	-	-	8,700	9,000	9,000	9,000	9,000	9,000
Commodities	-	-	5,500	14,900	15,400	15,400	15,600	15,600	15,600	15,600
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	\$ -	\$ -	\$ 65,600	\$ 67,400	\$ 86,300	\$ 165,900	\$ 170,300	\$ 170,300	\$ 170,300	\$ 170,300

System Planning

Commodities	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Personnel	-	-	-	-	-	-	-	-	-	-
Contractual	-	-	-	-	-	-	-	-	-	-
Commodities	-	276,300	456,900	299,500	311,700	311,700	324,500	324,500	324,500	324,500
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	\$ -	\$ 276,300	\$ 456,900	\$ 299,500	\$ 311,700	\$ 311,700	\$ 324,500	\$ 324,500	\$ 324,500	\$ 324,500

Stormwater Utility

Commodities	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Personnel	-	-	-	-	-	-	-	-	-	-
Contractual	-	-	-	-	-	-	-	-	-	-
Commodities	-	54,200	28,200	29,400	275,100	275,100	63,600	63,600	63,600	63,600
Capital Outlay	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	\$ -	\$ 54,200	\$ 28,200	\$ 29,400	\$ 275,100	\$ 275,100	\$ 63,600	\$ 63,600	\$ 63,600	\$ 63,600



**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Test Year
2020

	Total Budget	Total Adjustments	Rev Rqmt	Forecast Increase In:	2022	2023	2024	2025	2026	2027	2028	2029
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Input Area -- City Budget
Scenario: 2020 11 23-- Scenario I

Commodities	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Capital Outlay	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Total	\$ -	\$ -	\$ -	\$ 54,200	\$ 28,200	\$ 29,400	\$ 275,100	\$ 63,600				

Stormwater Program Administration

Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3.0%	3.0%	3.0%
Contractual	-	-	-	-	-	-	-	-	-	6.0%	6.0%	6.0%
Commodities	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Capital Outlay	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Other	-	-	-	-	-	-	-	-	-	3.0%	3.0%	3.0%
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			

TOTAL OPERATING	\$ 295,495	\$ -	\$ 295,495	\$ 304,700	\$ 760,100	\$ 1,064,100	\$ 888,200	\$ 1,289,300	\$ 1,091,700			
CAPITAL OUTLAYS	188,600	-	188,600	-	-	56,600	44,400	9,300	-			
TOTAL BUDGET	484,095	-	484,095	304,700	760,100	1,122,700	932,600	1,278,600	1,091,700			



**10 Year Forecast
2020-2029** **Input Area** **2020** **2021** **2022** **2023** **2024** **2025** **2026** **2027** **2028** **2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

Input Area -- Capital Outlays
Scenario: 2020 11 23-- Scenario I

Capital Outlays

Capital Outlay	150,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SW Pgm Mgmt - Other Prof Svcs	3,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW Pgm Mgmt - Equip < \$5,000	35,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW Pgm Mgmt - Equip Other < \$5,000	-	-	-	-	-	44,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Quality Compliance	-	-	-	-	58,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Planning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stormwater Utility	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stormwater Pgm Admin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Outlay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL CAPITAL OUTLAYS	188,600	-	-	-	-	58,600	44,400	9,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

**Forecast
2020-2029**

Total Cost	1 2020	2 2021	3 2022	4 2023	5 2024	6 2025	7 2026	8 2027	9 2028	10 2029
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**Input Area – Capital Improvement Plan
2020 11 23 – Scenario I
Scenario:**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Annual Capital Expenditures										
Fire Station 188 West Goodyear	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Police Bldg Phase II	100,000	200,000	1,800,000	-	-	-	-	-	-	-
Enhance Bullard Landscape and Branding	80,000	100,000	-	-	-	-	-	-	-	-
Citrus Rd, I-20 to Thomas	2,000,000	80,000	-	200,000	-	1,800,000	-	-	-	-
Cotton Lane – Estrella Pkwy to Cotton Lane	70,000	-	-	70,000	-	-	-	-	-	-
Cotton Lane and Estrella Pkwy	100,000	-	-	-	100,000	-	-	-	-	-
Estrella Pkwy-Vineyard Ave to MC85	150,000	-	150,000	-	-	-	-	-	-	-
Estrella Pkwy-Pebble Creek Pkwy and I-10	75,000	75,000	-	-	-	-	-	-	-	-
Lower Buckeye Rd and Sarival Ave	300,000	50,000	-	250,000	-	-	-	-	-	-
McDowell Rd and Citrus Rd Intersection	700,000	70,000	-	630,000	-	-	-	-	-	-
Sarival Ave Yuma Rd to Elwood St	1,000,000	-	100,000	-	-	900,000	-	-	-	-
Yuma Rd, Canyon Trails to Sarival	115,000	-	-	-	50,000	65,000	-	-	-	-
Sarival Ave: Jefferson St to Yuma	225,000	-	25,000	200,000	-	-	-	-	-	-
Civic Square	750,000	750,000	-	-	-	-	-	-	-	-
Estrella Pkwy Widening – Northbound	20,000	20,000	-	-	-	-	-	-	-	-
Goodyear Community Park Dog Park	15,000	-	15,000	-	-	-	-	-	-	-
Bullard Wash/Roadside Basins	4,770,000	-	-	-	1,590,000	1,590,000	1,590,000	-	-	-
Potential SW Project Placeholder	500,000	-	-	-	-	500,000	-	-	-	-
Project	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	-	-	-	-
Project	-	-	-	-	-	-	-	-	-	-
Future Projects	-	-	-	-	-	-	-	-	-	-
TOTAL CIP	12,970,000	-	1,295,000	2,140,000	1,350,000	1,740,000	4,355,000	2,090,000	-	-



**Forecast
2020-2029**

**CITY OF GOODYEAR
STORMWATER COST OF SERVICE MODEL**

	1	2	3	4	5	6	7	8	9	10
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Input Area – Capital Improvement Plan FUNDING
Scenario: 2020 11 23– Scenario I

1 Total Capital Improvement Plan

Total	-	1,295,000	2,140,000	1,350,000	1,740,000	4,355,000	2,090,000	-	-	-
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2 CIP Funding Summary

	2021	2022	2023	2024	2025	2026	2027	2028	2029
Beginning Funds Available	\$ -	\$ 2,205,000	\$ 131,150	\$ 1,785,085	\$ 98,637	\$ 2,246,596	\$ 223,994	\$ 230,714	\$ 237,635
Interest	-	66,150	3,935	53,553	2,959	67,398	6,720	6,921	7,129
Plus Capital Outlays	-	-	-	-	-	-	-	-	-
Sub-Total	-	2,271,150	135,085	1,838,637	101,596	2,313,994	230,714	237,635	244,764
Plus Proceeds from Issuance of Debt	\$ -	\$ 3,500,000	\$ 3,000,000	\$ -	\$ 6,500,000	\$ -	\$ -	\$ -	\$ -
Total Available Funds	-	3,500,000	2,271,150	1,838,637	6,601,596	2,313,994	230,714	237,635	244,764
Less CIP	-	1,295,000	2,140,000	1,740,000	4,355,000	2,090,000	-	-	-
Ending Funds Available	\$ -	\$ 2,205,000	\$ 131,150	\$ 98,637	\$ 2,246,596	\$ 223,994	\$ 230,714	\$ 237,635	\$ 244,764

**10 Year Forecast
2020-2029**

Input Area	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CITY OF GOODYEAR STORMWATER COST OF SERVICE MODEL										

**Input Area – Future Debt Service
Scenario: 2020 11 23– Scenario 1**

Debt Financing Variables
 Issuing Cost Percentage 0.00%
 Interest Rate 3.00%
 Term (Years) 20
 Reserve Years Funded -

Debt Issues
 Total Stormwater - CIP FUNDING INPUT \$ 13,000,000 \$ - \$ 3,500,000 \$ - \$ 3,000,000 \$ - \$ 6,500,000 \$ - \$ - \$ - \$ -
 Total Stormwater - DASHBOARD \$ 13,000,000 \$ 3,500,000 \$ 3,000,000 \$ 6,500,000

Series: 2020

Principal \$ -
 Issuing Costs -
 Total Debt -
 Interest Rate 3.00%
 Term 20
 P&I -

Beginning Principal

Principal	1	2	3	4	5	6	7	8	9
Interest	-	-	-	-	-	-	-	-	-
Reserve	-	-	-	-	-	-	-	-	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Series: 2021

Principal \$ 3,500,000
 Issuing Costs -
 Total Debt 3,500,000
 Interest Rate 3.00%
 Term 20
 P&I 235,255

Beginning Principal

Principal	1	2	3	4	5	6	7	8
Interest	130,255	134,163	138,188	142,333	146,603	151,001	155,531	160,197
Reserve	105,000	101,092	97,067	92,922	88,652	84,254	79,724	75,058
Total	\$ 235,255	\$ 235,255	\$ 235,255	\$ 235,255	\$ 235,255	\$ 235,255	\$ 235,255	\$ 235,255

10 Year Forecast 2020-2029	Input Area	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CITY OF GOODYEAR STORMWATER COST OF SERVICE MODEL											

**Input Area – Future Debt Service
Scenario: 2020 11 23– Scenario I**

Series: 2022

Principal	\$ -
Issuing Costs	-
Total Debt	-
Interest Rate	3.00%
Term	20
P&I	-
Beginning Principal	
Principal	
Interest	
Reserve	
Total	

\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Series: 2023

Principal	\$ 3,000,000
Issuing Costs	-
Total Debt	3,000,000
Interest Rate	3.00%
Term	20
P&I	201,647
Beginning Principal	
Principal	
Interest	
Reserve	
Total	

\$ 111,647	\$ 114,997	\$ 118,446	\$ 122,000	\$ 125,660	\$ 129,430
90,000	86,651	83,201	79,647	75,987	72,218
\$ 201,647	\$ 201,647	\$ 201,647	\$ 201,647	\$ 201,647	\$ 201,647
3,000,000	2,888,353	2,773,356	2,654,910	2,532,910	2,407,250

10 Year Forecast 2020-2029										
Input Area	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CITY OF GOODYEAR STORMWATER COST OF SERVICE MODEL										

**Input Area – Future Debt Service
Scenario: 2020 11 23– Scenario I**

Series: 2026

Principal	\$ -
Issuing Costs	-
Total Debt	-
Interest Rate	3.00%
Term	20
P&I	-

Beginning Principal

Principal	-	-	-
Interest	\$ -	\$ -	\$ -
Reserve	-	-	-
Total	\$ -	\$ -	\$ -

Series: 2027

Principal	\$ -
Issuing Costs	-
Total Debt	-
Interest Rate	3.00%
Term	20
P&I	-

Beginning Principal

Principal	-	-
Interest	\$ -	\$ -
Reserve	-	-
Total	\$ -	\$ -

10 Year Forecast 2020-2029	1	2	3	4	5	6	7	8	9	
Input Area	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CITY OF GOODYEAR										
STORMWATER COST OF SERVICE MODEL										

Input Area -- Future Debt Service
Scenario: 2020 11 23-- Scenario I

Series:	2028
Principal	\$ -
Issuing Costs	-
Total Debt	-
Interest Rate	3.00%
Term	20
P&I	-
Beginning Principal	1
Principal	\$ -
Interest	-
Reserve	-
Total	\$ -

Series:	Total
Principal	\$ -
Interest	130,255
Reserve	105,000
Total	235,255
Principal	134,163
Interest	101,092
Reserve	187,067
Total	436,902
Principal	249,835
Interest	179,572
Reserve	366,853
Total	873,804
Principal	506,952
Interest	522,160
Reserve	351,644
Total	873,804
Principal	537,825
Interest	335,979
Reserve	319,844
Total	873,804
Principal	553,960
Interest	319,844
Reserve	-
Total	873,804

