



**Fiscal Year 2021
Proposed
Revenue & General Fund
Operating Budgets**

**Board Workshop
July 28, 2020**

Tarrant Regional Water District

Fiscal Year 2021 Budget

Enriching Communities, Improving Quality of Life

DESCRIPTION OF THE DISTRICT

The Tarrant Regional Water District is a water control and improvement district and political subdivision of the State of Texas created in October 1924 pursuant to Article 16, Section 59 of the Texas Constitution. The District is presently functioning under the general laws of the State of Texas, including Chapters 49 and 51, Texas Water Code, and pursuant to the provisions of Chapter 268, Acts of 1957, 55th Legislature of Texas as amended, Regular Session (the “District Act”), and is authorized by the District Act to issue bonds and finance public works projects.

The District was created for the purpose of developing and providing a sufficient supply of raw water as well as providing flood protection for the City of Fort Worth. The District’s functions have expanded and now encompass the development of a raw water supply system to meet the needs of major municipal and industrial users within and outside its boundaries, to provide flood protection for surrounding communities, and to support recreation in a joint effort with other local governments within Tarrant County.

As the District’s functions have expanded, it has become more crucial than ever to ensure that all systems maintained and operated by the District are done so at the most optimal level, that resources are used as efficiently as possible, and that the public is informed on the direction the District is taking in all areas of responsibility.

In this Fiscal Year 2021 Annual Budget, resources have been efficiently allocated based on the District’s core missions. For the Revenue Fund, the core mission is to deliver a reliable, resilient supply of water to the public at the lowest cost and highest quality possible.

Table Contents

Revenue Fund

Budget Summary.....	1
Water Supply Demands.....	2
System Rate Calculation.....	3
System Rate Model.....	4
Water Usage Projections.....	5
Revenues.....	6 - 10
Expenditures.....	11 - 24
Budget Summary with Variances.....	25
Budget Variance Explanations.....	26
Appendix – CIP Memo.....	27 – 29

General Fund

General Fund – Flood Protection

Budget Summary.....	32
Revenues.....	33 – 37
Expenditures.....	38 – 49
Budget Summary with Variances.....	50
Budget Variance Explanations.....	51
Appendix – Panther Island/Central City Project	52 – 59

General Fund – Recreation

Budget Overview.....	61
Recreation Events & Programming.....	62
Recreation Infrastructure.....	63
Recreation Support Services	64

General Fund –Contingency

Budget Overview.....	66
Revenues.....	67 – 69

Revenue Fund



Spillway at Richland Chambers

TRWD Revenue Fund FY21 Budget Summary

TRWD Water Supply Mission

Deliver a reliable, resilient supply of water to the public at the lowest cost and highest quality possible.

Water Supply Overview

TRWD provides water to more than two million people in an 11-county service area, making it one of the largest water suppliers in the state. The District provides raw water to more than 55 wholesale customers in North Central Texas, the largest of which include the cities of Fort Worth, Arlington, Mansfield as well as the Trinity River Authority.

Proposed FY21 Revenue Fund Budget

The FY21 proposed expenditure budget and system rate are lower than the FY20 approved budget.

Revenues	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget
Sale of Water	\$ 124,957,837	\$ 144,972,496	\$ 144,805,284
Interest Income	\$ 6,749,276	\$ 3,500,000	\$ 2,650,000
Contributions	\$ 1,430,465	\$ 1,496,068	\$ 1,205,668
Other Income	\$ 1,660,596	\$ 4,803,730	\$ 3,692,562
Total Revenues	\$ 134,798,174	\$ 154,772,294	\$ 152,353,514

Expenditures	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget
Operating	\$ 49,387,509	\$ 73,249,246	\$ 73,349,048
Capital	\$ 544,174	\$ 912,717	\$ 993,517
Debt Service	\$ 79,500,852	\$ 80,610,331	\$ 78,010,949
Total Expenditures	\$ 129,432,536	\$ 154,772,294	\$ 152,353,514

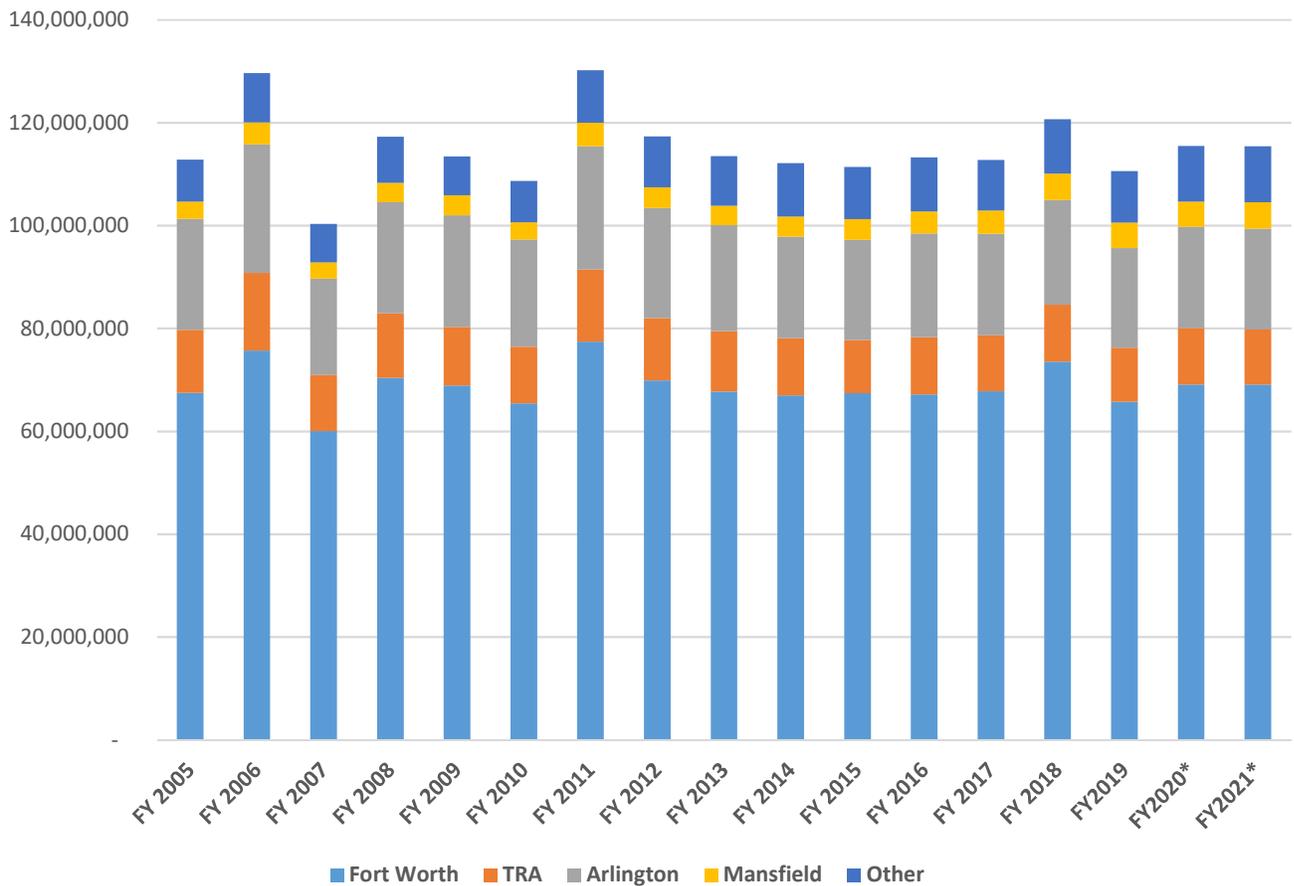
System Rate	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget
In District Rate	\$ 1.08114	\$ 1.25539	\$ 1.25448
Out of District Rate	\$ 1.08414	\$ 1.25539	\$ 1.25448
Arlington Rate	\$ 1.08264	\$ 1.25539	\$ 1.25448

Water Supply Demands

Demand for water supply is based on many factors including population growth, water conservation, weather patterns, and changing population lifestyles. All these factors play into the current water supply and future demand requirements. The District manages both the current demand needs and prepares for the future demand requirements while working to keep the water rate stable for its customers.

The graph below shows water usage for the past 15 years and budgeted usage for FY20 & FY21. The District is currently preparing for future demands by expanding transmission system infrastructure and developing new sources of supply.

Usage by Customer (000's gallons)



*Budgeted Usage

System Rate Calculation

The Sale of Water revenues are estimated using the budgeted raw water rate multiplied by the budgeted water sales for FY21. This budgeted rate, expressed in dollars per 1000 gallons, is calculated by taking the budgeted expenditures for FY21, subtracting other income sources and dividing that number by the estimated usage in gallons. Each fiscal year, the primary wholesale customers provide their estimated usage for the year. The remaining customers' estimated usage is determined using historical data of actual reported usage.

Net System Revenue Requirements	FY20 Approved Budget	FY21 Proposed Budget	% Change
Total Expenditures	\$ 154,772,294	\$ 152,353,514	-1.6%
Less: Other Revenues Not Through Sale of Water	\$ (9,799,798)	\$ (7,548,230)	-23.0%
Net System Revenue Requirement	\$ 144,972,496	\$ 144,805,284	-0.1%

Gallage (000'S)	FY20 Budgeted Water Sales	FY21 Budgeted Water Sales	% Change
Fort Worth In-District	47,187,000	47,187,000	0.0%
Fort Worth Out-of-District	21,901,000	21,901,000	0.0%
Trinity River Authority	11,001,724	10,661,844	-3.1%
Mansfield	4,880,518	5,152,362	5.6%
Arlington	19,659,385	19,623,931	-0.2%
Other	10,850,000	10,904,250	0.5%
Total Gallage (000's)	115,479,627	115,430,387	-0.04%

Calculated System Rate	FY20 Budgeted Rate	FY21 Budgeted Rate	% Change
District Rate	\$1.25539	\$1.25448	-0.1%

System Rate Model

To accurately project water rates, the District utilizes a rate model. The customers' estimates for raw water usage are combined with the District's estimated expenses to calculate an estimated rate. A sample of the District's rate model for the years 2020 - 2026 is shown below.

	Approved Budget 2020	Proposed 2021	PROJECTED 2022	PROJECTED 2023	PROJECTED 2024	PROJECTED 2025	PROJECTED 2026
SYSTEM OPERATIONS							
Operations and Maintenance	53,249,246	55,349,048	59,415,103	62,980,009	66,758,810	70,764,338	75,010,199
Pumping Power	20,000,000	18,000,000	18,000,000	18,000,000	18,000,000	18,000,000	18,000,000
Capital Expenditures	912,717	993,517	1,021,644	1,123,808	1,236,189	1,359,808	1,495,789
TOTAL EXPENSES	74,161,963	74,342,565	78,436,747	82,103,817	85,994,999	90,124,146	94,505,987
OUTSTANDING BOND DEBT SERVICE							
Outstanding Principal & Interest	78,103,631	76,153,899	76,128,884	73,885,822	73,291,489	71,727,029	71,704,193
Outstanding Extendible Commercial Paper Bonds							
Bond Paying Agent Fees	6,700	7,050	7,050	7,050	7,050	7,050	7,050
TOTAL OUTSTANDING BOND DEBT SERVICE	78,110,331	76,160,949	76,135,934	73,892,872	73,298,539	71,734,079	71,711,243
PROPOSED BOND DEBT SERVICE							
Extendible Commercial Paper Bonds	2,500,000	800,000					
2021 Issue - \$50M		1,050,000	2,937,000	2,937,000	2,935,000	2,932,000	2,932,000
2022 Issue - \$50M			1,159,000	3,130,000	3,130,000	3,130,000	3,130,000
2023 Issue - \$50M				1,330,000	3,424,000	3,424,000	3,424,000
2024 Issue - \$50M					1,440,000	3,566,000	3,566,000
2025 Issue - \$50M						1,486,000	3,676,000
TOTAL PROPOSED BOND DEBT SERVICE	2,500,000	1,850,000	4,096,000	7,397,000	10,929,000	14,538,000	16,728,000
TOTAL EXPENDITURES	154,772,294	152,353,514	158,668,681	163,393,689	170,222,538	176,396,225	182,945,230
OTHER REVENUE (not through the sale of water)							
Water Sales not under system rate	500,000	500,000	505,000	510,050	515,151	520,302	525,505
Dallas Water Utilities Reimbursement of O&M	2,422,529	2,422,529	2,543,655	2,670,838	2,804,380	2,944,599	3,091,829
Excess Reserve Funds	1,390,000	0	0	0	0	0	0
Interest Earned	3,500,000	2,650,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000
Other Revenues	1,987,269	1,975,701	1,930,061	1,949,361	1,968,855	1,988,543	2,008,429
TOTAL OTHER REVENUE (not through the sale of water)	9,799,798	7,548,230	8,178,716	8,330,249	8,488,385	8,653,444	8,825,763
NET SYSTEM REQUIREMENTS	144,972,496	144,805,284	150,489,965	155,063,440	161,734,152	167,742,781	174,119,467

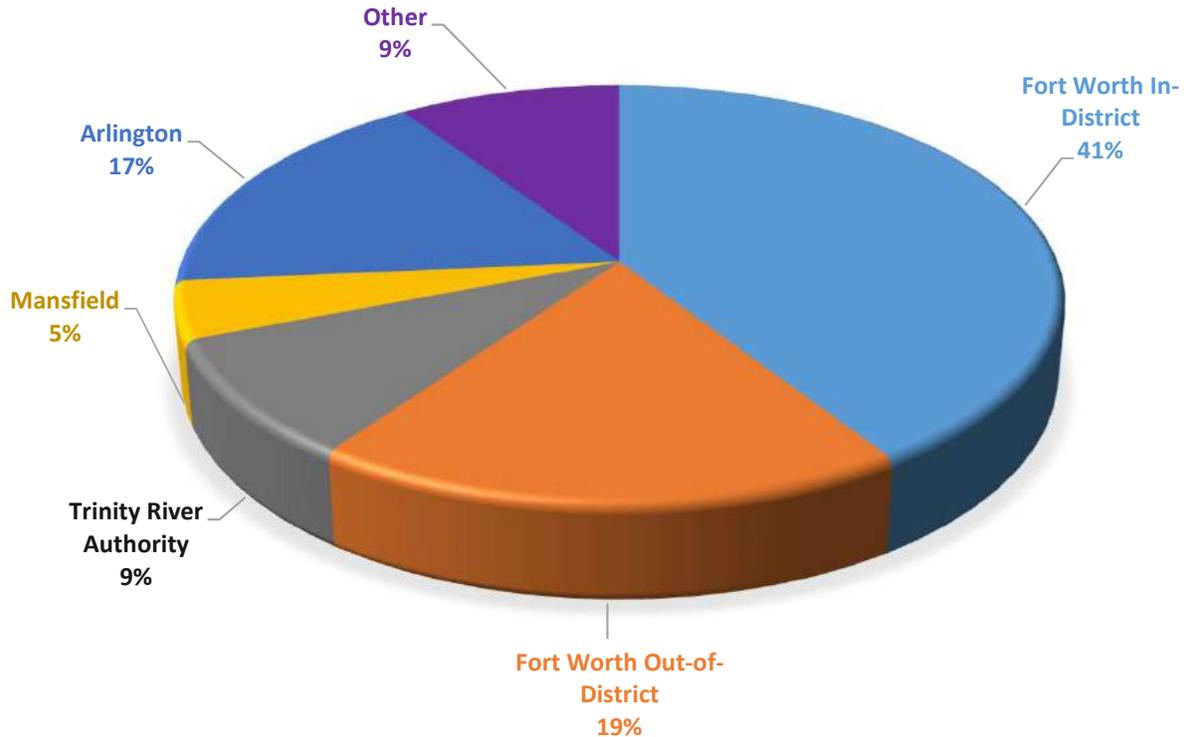
SYSTEM WATER RATES	2020	2021	2022	2023	2024	2025	2026
PROJECTED WATER USE (1000 GAL.) - 5 yr. customer demands projections							
Fort Worth (In-District)	47,187,000	47,187,000	47,422,935	47,660,050	47,898,350	48,137,842	48,378,531
Fort Worth (Out-District)	21,901,000	21,901,000	22,010,505	22,120,558	22,231,160	22,342,316	22,454,028
Arlington	19,659,385	19,623,931	19,722,051	19,820,661	19,919,764	20,019,363	20,119,460
Trinity River Authority	11,001,724	10,661,844	10,715,153	10,768,729	10,822,573	10,876,685	10,931,069
Mansfield	4,880,518	5,152,362	5,178,124	5,204,014	5,230,035	5,256,185	5,282,466
Other	10,850,000	10,904,250	10,958,771	11,013,565	11,068,633	11,123,977	11,179,596
TOTAL	115,479,627	115,430,387	116,007,539	116,587,576	117,170,515	117,756,368	118,345,149
PROJECTED SYSTEM WATER RATE (\$/1000 GAL.)							
District Rate	1.25539	1.25448	1.29724	1.33002	1.38033	1.42449	1.47129
PROJECTED SYSTEM REVENUE: (\$)							
Fort Worth (In-District)	59,238,303	59,195,218	61,519,069	63,388,669	66,115,601	68,571,879	71,178,617
Fort Worth (Out-District)	27,494,396	27,474,399	28,552,973	29,420,714	30,686,371	31,826,408	33,036,279
Arlington	24,680,285	24,617,858	25,584,292	26,361,813	27,495,878	28,517,385	29,601,464
Trinity River Authority	13,811,505	13,375,086	13,900,157	14,322,591	14,938,738	15,493,731	16,082,720
Mansfield	6,126,976	6,463,543	6,717,285	6,921,427	7,219,181	7,487,383	7,772,014
Other	13,621,031	13,679,180	14,216,189	14,648,227	15,278,383	15,845,995	16,448,374
TOTAL SYSTEM REVENUE	144,972,496	144,805,284	150,489,965	155,063,440	161,734,152	167,742,781	174,119,467

Water Usage Projections

Each fiscal year, the primary wholesale customers provide their estimated usage for the year. The remaining customers' estimated usage is determined using historical data of actual reported usage. The customers' projected usage for FY21 decreased 49,240 gallons, 0.04% lower than FY20. The District's primary wholesale customers account for 90% of budgeted water sales for FY21.

Gallonge (000'S)	FY20 Budgeted Water Sales	FY21 Budgeted Water Sales	Variance	% Change
Fort Worth In-District	47,187,000	47,187,000	-	0.0%
Fort Worth Out-of-District	21,901,000	21,901,000	-	0.0%
Trinity River Authority	11,001,724	10,661,844	(339,880)	-3.1%
Mansfield	4,880,518	5,152,362	271,844	5.6%
Arlington	19,659,385	19,623,931	(35,454)	-0.2%
Other	10,850,000	10,904,250	54,250	0.5%
Total Gallonge (000's)	115,479,627	115,430,387	(49,240)	-0.04%

FY21 Budgeted Water Usage by Customer

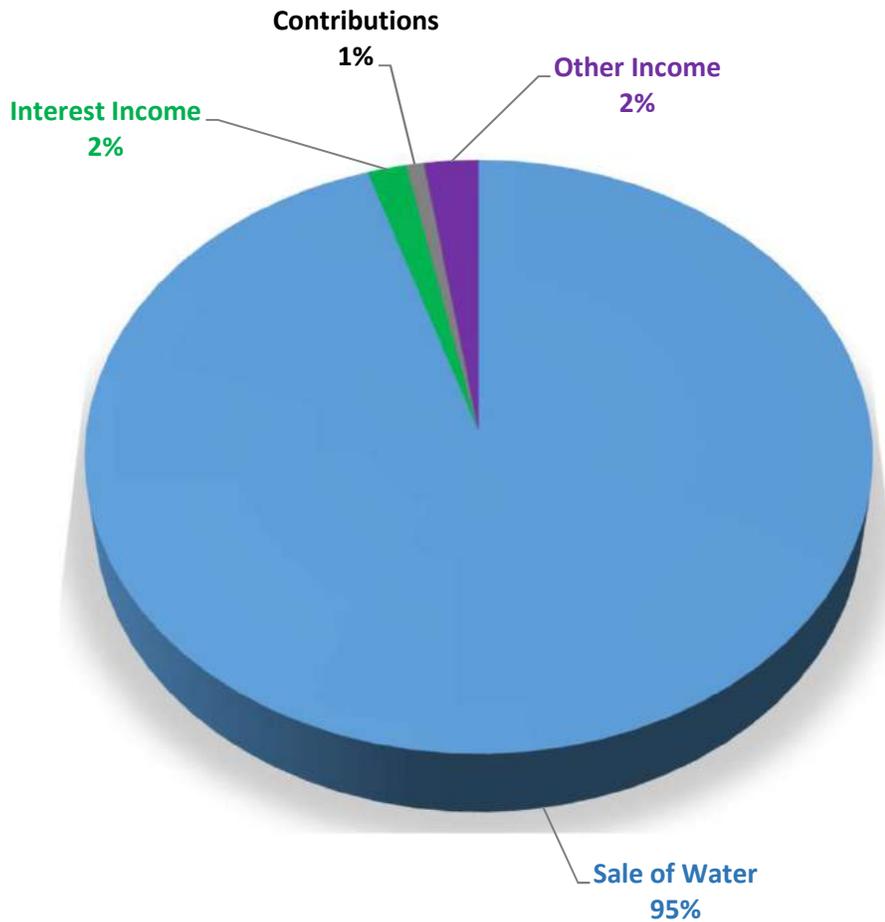


Sources of Revenue

The Sale of Water provides the primary source and largest single component of income to the Revenue Fund. Interest Earnings on investments, program contributions and other income sources provide the remaining 5% of the budgeted revenues for FY21. These individual components will be discussed in more detail on the following pages.

Sources	FY19 Actuals	FY20 Approved	FY21 Proposed	Variance	% Change
		Budget	Budget		
Sale of Water	\$ 124,957,837	\$ 144,972,496	\$144,805,284	\$ (167,212)	-0.1%
Interest Income	\$ 6,749,276	\$ 3,500,000	\$ 2,650,000	\$ (850,000)	-24.3%
Contributions	\$ 1,430,465	\$ 1,496,068	\$ 1,205,668	\$ (290,400)	-19.4%
Other Income	\$ 1,660,596	\$ 4,803,730	\$ 3,692,562	\$ (1,111,168)	-23.1%
Total	\$ 134,798,174	\$ 154,772,294	\$ 152,353,514	\$ (2,418,780)	-1.6%

FY21 Budgeted Revenues

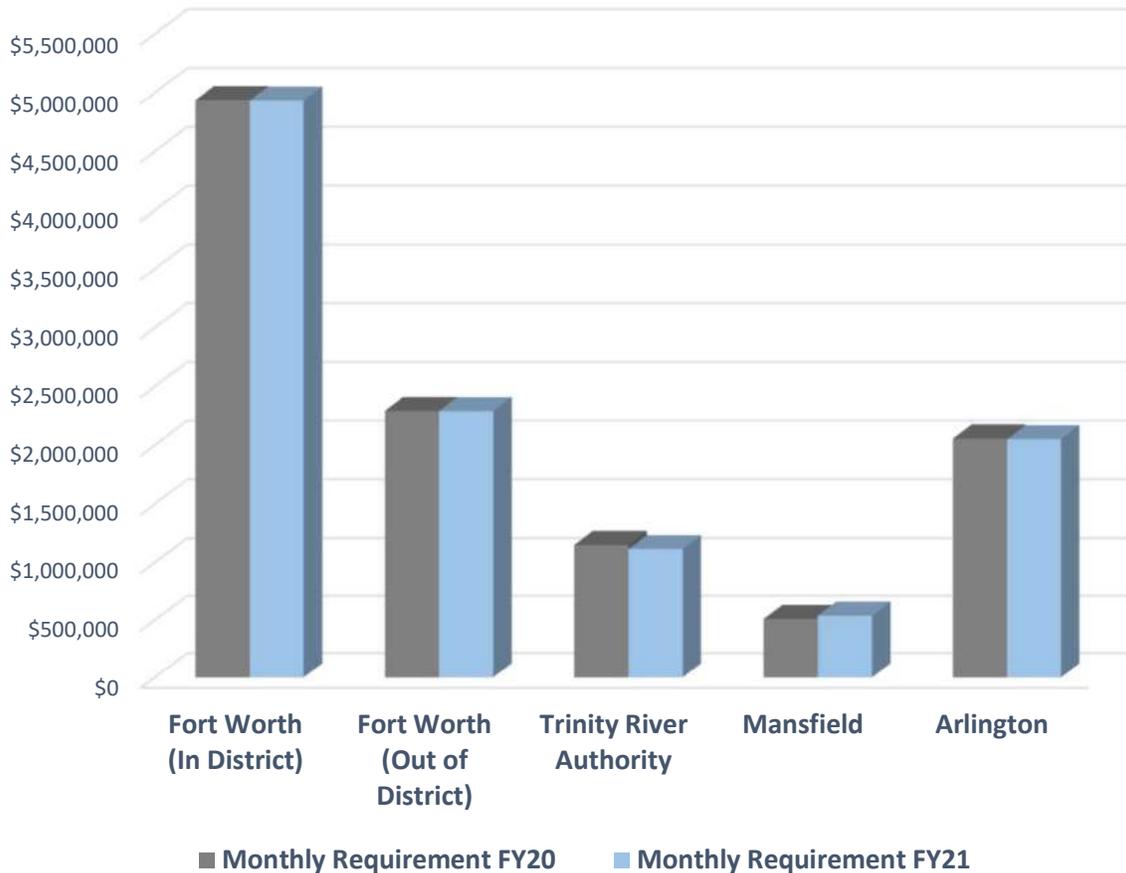


Sale of Water

Customer Monthly Payments

	Fort Worth (In District)	Fort Worth (Out of District)	Trinity River Authority	Mansfield	Arlington
FY 2021 Estimated Usage (000's)	47,187,000	21,901,000	10,661,844	5,152,362	19,623,931
FY 2021 Rate per 1,000 Gallons	\$1.25448	\$1.25448	\$1.25448	\$1.25448	\$1.25448
FY21 Budgeted Revenue Requirement	\$59,195,218	\$27,474,399	\$13,375,086	\$6,463,543	\$24,617,858
FY20 Budgeted Revenue Requirement	\$59,238,303	\$27,494,396	\$13,811,505	\$6,126,976	\$24,680,285
Monthly Requirement FY21	\$4,932,935	\$2,289,533	\$1,114,590	\$538,629	\$2,051,488
Monthly Requirement FY20	\$4,936,525	\$2,291,200	\$1,150,959	\$510,581	\$2,056,690

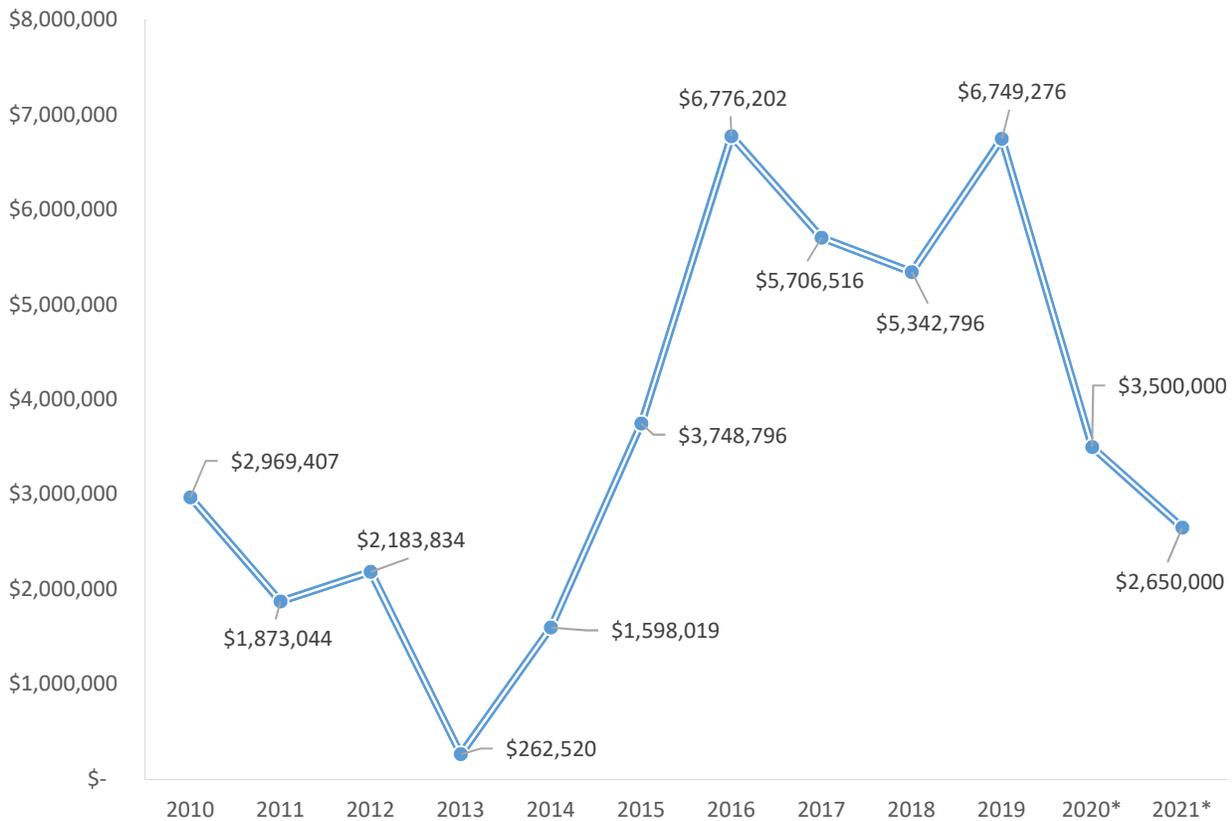
Budgeted Customer Monthly Payments



Interest Income

The Revenue Fund budgeted interest income includes interest income generated from the operating Revenue Fund as well as the Bond Reserve Fund and the unspent bond proceeds. The majority of the income comes from the Reserve Fund which holds a balance equal to the largest annual debt service payment per bond covenant requirements and is able to invest in longer term investments. In addition to the Reserve Fund, in the past the District issued long-term debt for multi-year projects which allowed available proceeds to be invested and increased Interest Income in those years. As the District changes to issuing Extendible Commercial Paper Bonds, those excess proceeds will not be available as the District will only issue for short term cash flow needs and then roll those issuances to long-term bonds after they are spent. The offset is that Interest Expense will also be lower than it would have been as the District did not have to pay interest on proceeds that weren't needed at the beginning of a project. Therefore, starting in FY19, the District has decreased the budgeted Interest Income to account for that change in debt issuance practices.

The graph below illustrates the actual interest earned on investments for the past 10 years and budgeted interest income for FY20 and FY21.



*Budgeted Interest Income

Contributions

Contribution revenues help off-set the District's expenses for the Water Efficiency Campaign. In FY21 these revenues will account for \$1.2M in income for the Revenue Fund. A closer look at these program's expense budgets will be shown in the expenditures section on page 17.

In FY21, both the City of Dallas and NTMWD have agreed to contribute \$583,334 each to the public outreach and education campaign, also known as "Water is Awesome." Additionally, Upper Trinity Water District, the City of Dallas and NTMWD each help support the Regional Water Symposiums. The City of Dallas has also agreed to contribute \$20K to the Weekly Watering program in FY21.

For FY21, the projected revenue for the Pollution Campaign is zero due to a retooling of the campaign.

Program	FY19 Actuals	FY20 Approved	FY21 Proposed	Variance
		Budget	Budget	
Water Efficiency Program Revenues	\$ 1,127,065	\$ 1,205,668	\$ 1,205,668	\$ -
Pollution Campaign (Reverse Litter)	\$ 303,400	\$ 290,400	\$ -	\$ (290,400)
Total	\$ 1,430,465	\$ 1,496,068	\$ 1,205,668	\$ (290,400)



Other Income

In FY20 the Reserve Fund requirement exceeded the required balance by \$1.3M due to declining debt service. There fore FY20 had an unusual revenue contribution from the Reserve Fund. This will not be the case in FY21.

Permits, sales, leases, and miscellaneous revenue have increased throughout the years, the budget for FY21 reflects this increasing trend. The sale of equipment is anticipated to increase by \$15K in FY21, due to additional equipment being sold at auction. Additionally, the Hydroelectric Turbine is expected to bring in \$45K in FY21.

Sources	FY19 Actuals	FY20 Approved	FY21 Proposed	Variance
		Budget	Budget	
Dallas Water Utilities	\$ 359,952	\$ 2,422,529	\$ 2,422,529	\$ -
Excess Reserve Funds	\$ -	\$ 1,390,000	\$ -	\$ (1,390,000)
Other Water Sales - not based on rate	\$ 711,225	\$ 500,000	\$ 500,000	\$ -
Permits, Sales, Leases, and Misc. Revenue	\$ 589,419	\$ 491,201	\$ 770,033	\$ 278,832
Total	\$ 1,660,596	\$ 4,803,730	\$ 3,692,562	\$ (1,111,168)



The Hydroelectric Turbine, pictured above, is located at Arlington Outlet and produces electricity which the District sells back to the grid.

FY21 Operating Expenditures

Strategic Objectives

Tarrant Regional Water District has five water supply strategic objectives, and operating costs are budgeted with these goals in mind. The objectives below are tentative pending Board approval.

Objective 1: Water supply and delivery diversification, resilience, and operational flexibility through studies, modifications to current system, and an environmental sustainability plan.

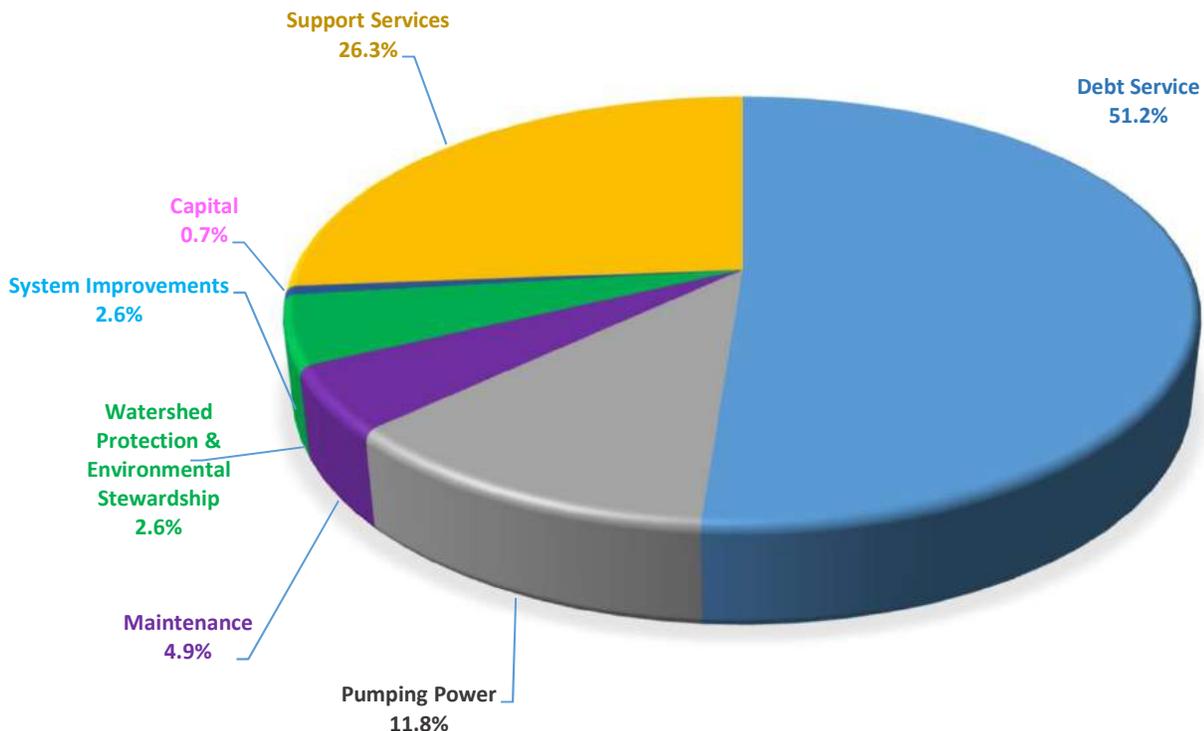
Objective 2: Responsible management of TRWD assets by enhancing financial forecasting to capture large capital improvements, rehabilitation, and renewal costs through long range budgeting.

Objective 3: Further TRWD as an employer of choice and weave social responsibility and diversity into our culture and business practices.

Objective 4: Foster TRWD relationships with our partners, customers, and diverse business community, and the public.

Objective 5: Emergency preparedness and management by developing, updating, and testing response plans for mission areas across the organization.

FY21 PROPOSED BUDGET

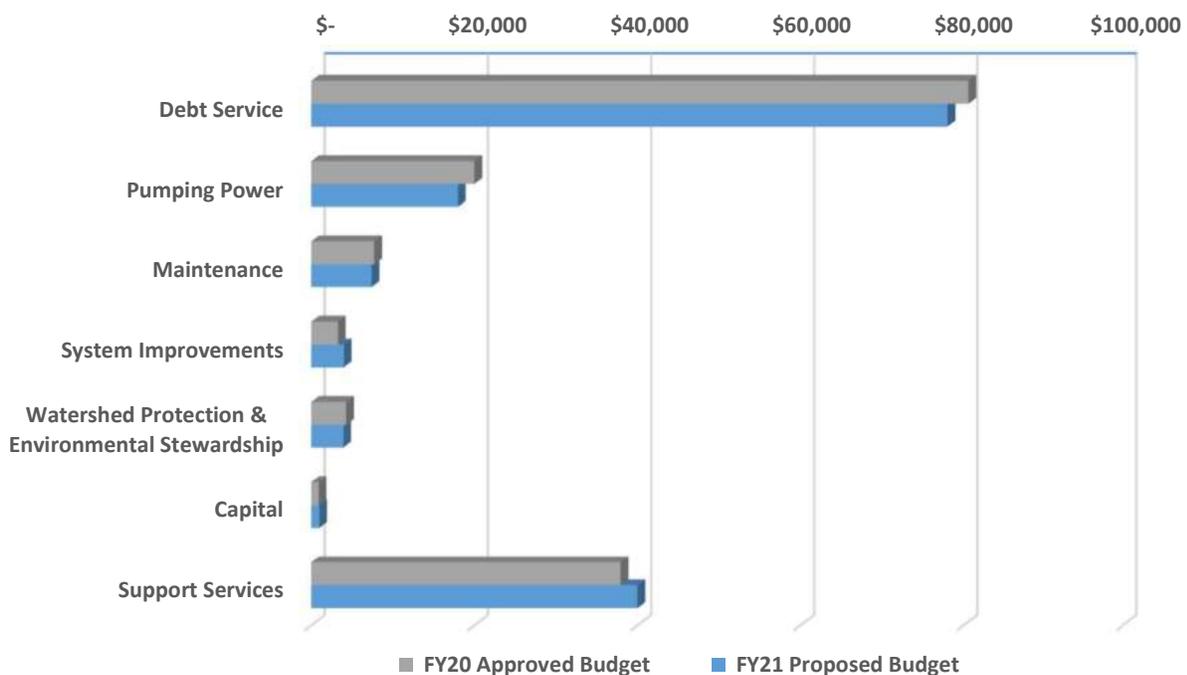


Revenue Fund Expenditure Budget Overview

The FY21 Water Supply Operating Budget is presented in budget categories. The Revenue Fund capital, system improvements and maintenance budgets are directly related to the District's commitment to delivering a reliable, resilient supply of water to the public at the lowest cost and highest quality possible. Through incorporation of the Water Efficiency program, the Pollution Campaign, and the Watershed Protection programs, the District continues to show its commitment to Watershed Protection and Environmental Stewardship. The Water Supply operations are supported through administrative and professional services, information technology and a staff committed to the Water Supply mission. The table below shows the FY19 actual costs in each area, along with the FY20 approved budget and the proposed FY21 budget.

Budget Categories	FY19 Actuals	FY20 Approved	FY21 Proposed	Variance	% Change
		Budget	Budget		
Debt Service	\$ 79,500,852	\$ 80,610,331	\$ 78,010,949	\$ (2,599,382)	-3.2%
Pumping Power	\$ 8,488,682	\$ 20,000,000	\$ 18,000,000	\$ (2,000,000)	-10.0%
Maintenance	\$ 5,201,313	\$ 7,748,979	\$ 7,417,765	\$ (331,215)	-4.3%
System Improvements	\$ 1,551,766	\$ 3,281,700	\$ 4,002,945	\$ 721,245	22.0%
Watershed Protection & Environmental Stewardship	\$ 3,691,953	\$ 4,308,134	\$ 3,935,002	\$ (373,132)	-8.7%
Capital	\$ 544,174	\$ 912,717	\$ 993,517	\$ 80,800	8.9%
Support Services	\$ 30,453,796	\$ 37,910,433	\$ 39,993,337	\$ 2,082,904	5.5%
Total	\$ 129,432,536	\$ 154,772,294	\$ 152,353,514	\$ (2,418,780)	-1.6%

Budget Comparison FY20 to FY21 (thousands)



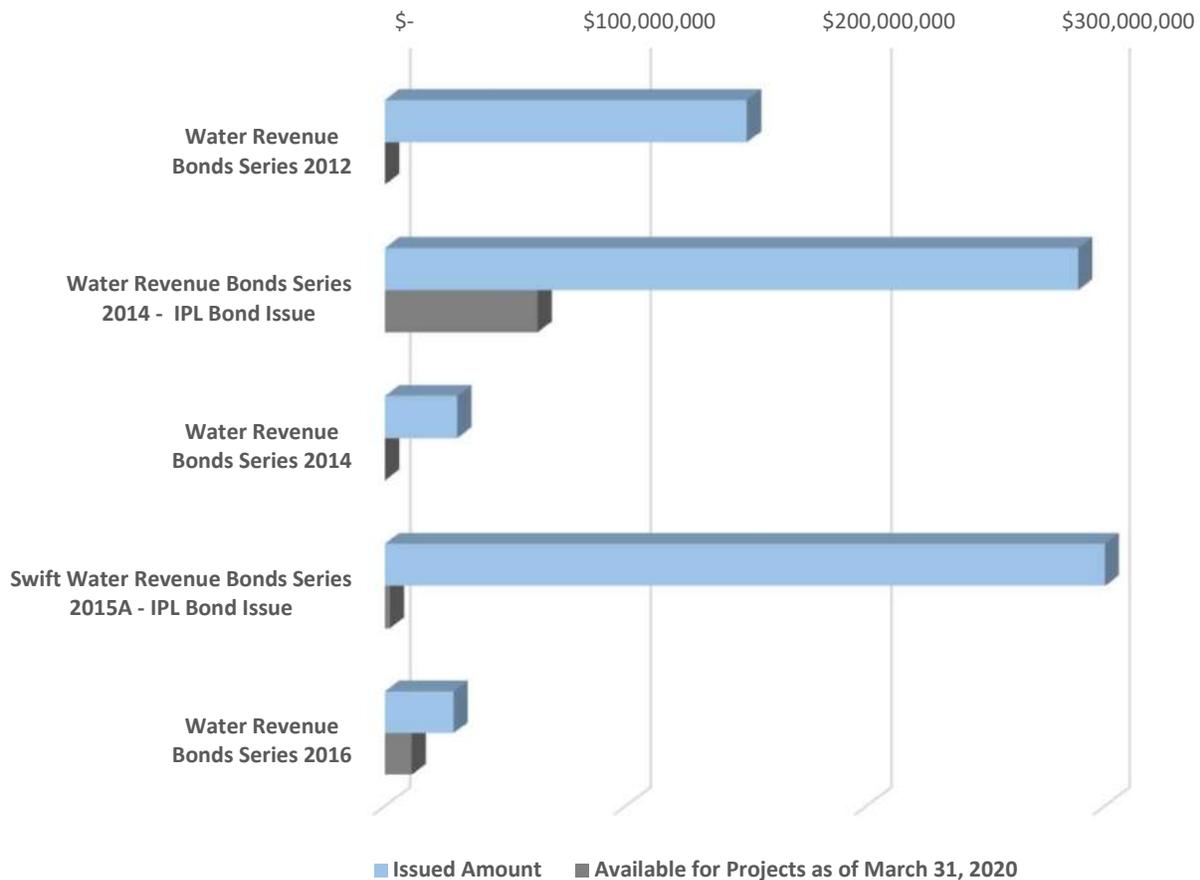
Debt

The District is sensitive to the escalating costs related to water supply and the impact to our customers. We continue to explore financing options that reduce the cost of capital investments and we prioritize our expenditures through our asset management and capital improvement program. Attached in the Revenue Fund Appendix is a description of the capital improvement projects the District plans to undertake in 2021.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	%Change
Bonds Payable	\$ 34,340,000	\$ 34,030,000	\$ 35,945,000	\$ 1,915,000	5.6%
Interest Expense	\$ 45,133,202	\$ 46,553,631	\$ 42,038,899	\$ (4,514,732)	-9.7%
Bond Issuance Expense	\$ 20,000	\$ 20,000	\$ 20,000	\$ -	0.0%
Paying Agent Fees	\$ 7,650	\$ 6,700	\$ 7,050	\$ 350	5.2%
Total Debt Service	\$ 79,500,852	\$ 80,610,331	\$ 78,010,949	\$ (2,599,382)	-3.2%

The graph below illustrates how much debt the District has issued since 2012 and the amount of available funds we have as of March 31, 2020.

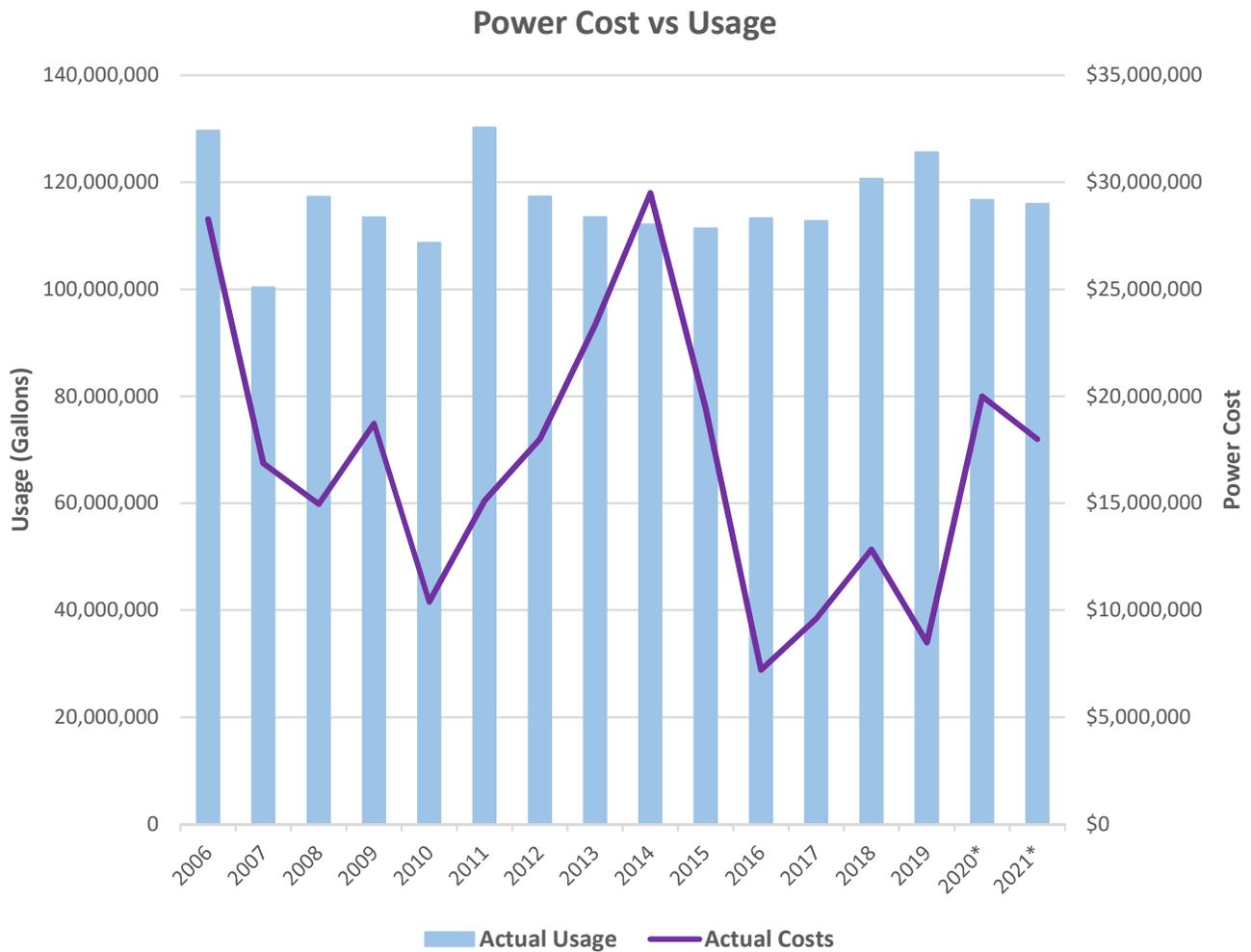
Bonds Issued vs Available as of March 31, 2020



Pumping Power Budget

Pumping power is broken out as a budget category in an effort to further explain the factors that influence pumping power costs. The amount of rainfall leading into the fiscal year and power unit costs have the greatest impact on actual costs. The graph below illustrates how changes in usage do not always have a direct correlation to pumping power costs. In FY16 the Customer Advisory Committee agreed that because the uncertainties of predicting pumping costs 18 months in advance are so great, the annual pumping power budget would be set at \$23M annually. In FY19 the budget was reduced to \$20M annually due to significantly low power cost years as well as additional model information. In FY21 the budget is being reduced again to \$18M, as the impact of the Integrated Pipeline on pumping power is expected to decrease costs.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance
Pumping Power	\$8,488,682	\$ 20,000,000	\$18,000,000	\$ (2,000,000)



*Budgeted Usage and Pumping Power Costs for FY20 and FY21

Maintenance Budget

The Water Supply Maintenance budget contains the costs to maintain the water supply system. The largest decrease from FY20 is in Pipeline and Pumpstation Maintenance and is due to a decrease in pump unit rebuilds and carbon fiber repairs that are not need in FY21. The largest increases from FY20 is in Equipment and Fleet. This is largely due to an increase in pipeline fleet repairs and supplies and the purchase of a new hydraulic torque wrench and chicken switches needed for additional safety. Additional increases are proposed in Benbrook Reservoir O&M costs and maintenance support costs. The Corps of Engineers sends out 5 year estimated costs and they estimated an increase every year for the next 5 years starting in FY21. The Maintenance Support budget includes equipment rental, contract labor and fuel used on various projects.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Pipeline & Pump Station	\$ 2,508,819	\$ 4,170,500	\$ 3,647,000	\$ (523,500)	-12.6%
Facilities Maintenance	\$ 1,095,184	\$ 1,573,375	\$ 1,605,895	\$ 32,520	2.1%
Equipment & Fleet	\$ 548,203	\$ 681,741	\$ 808,054	\$ 126,313	18.5%
Maintenance Support	\$ 566,105	\$ 607,763	\$ 626,816	\$ 19,053	3.1%
Benbrook Reservoir O&M	\$ 223,961	\$ 465,600	\$ 515,000	\$ 49,400	10.6%
Stream Gauging Stations	\$ 259,042	\$ 250,000	\$ 215,000	\$ (35,000)	-14.0%
Total	\$ 5,201,313	\$ 7,748,979	\$ 7,417,765	\$ (331,215)	-4.3%



TRWD has a pipe replacement program that utilizes sophisticated technology to identify areas on each pipe segment with the highest potential of failure. Sections of pipe are replaced by the District's crew while demands are low, saving time and valuable dollars. The FY21 Pipeline and Pump station budget includes a \$749K budget to replace 16 pipe segments.

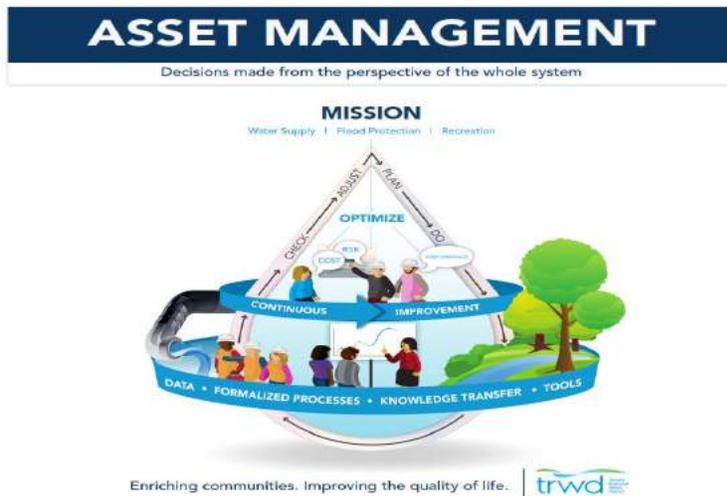
System Improvement Budget

The Water Supply System Improvement budget consists of projects that enhance, strengthen, or support the current system infrastructure. Listed below are the System Improvement projects budgeted for FY21.

The Water Supply Planning Studies project is an analysis that will evaluate existing and future system capacity and operational needs in the TRWD water delivery system. This master plan will serve as a platform to evaluate and prioritize water delivery system capital projects needed to meet projected demands and to evaluate needs for resiliency and operational flexibility in the system.

The Asset Management program touches every aspect of the Water Supply System, from equipment purchases, to staff retention, to the planning and execution of projects to best serve our communities. The program is an integral part of assuring the District continues to use best practices in all facets of maintenance and operations.

Project	FY21 Proposed Budget
Water Supply Planning Studies	\$ 890,000
Asset Management Project - Phase 4	\$ 350,000
Replacement Pumps for at Richland Chambers and Wetlands	\$ 320,000
Roof and Building Repairs at Benbrook and Richland Chambers	\$ 270,000
Upgrade 4 VFD's	\$ 240,000
Probable Maximum Flood & Breach Analyses for Eastern Reservoirs	\$ 200,000
Additional Variable Frequency Drives at RC3L - Design	\$ 185,000
Communications Building Climatec Additions	\$ 175,000
Control Valves for Cedar Creek and Arlington Outlet	\$ 300,000
Pump Repairs and Replacements	\$ 135,000
Choke Ring Repair for Richland Chambers Motors	\$ 120,000
Revise the Water Rights Accounting Plan	\$ 100,000
Other Miscellaneous System Improvement Projects	\$ 717,945
Total	\$ 4,002,945



Watershed Protection and Environmental Stewardship Budget

From ensuring the best water quality in our reservoirs through the Reverse Litter campaign and Reservoir Cleanups to our Water Efficiency program, TRWD is committed to protecting our watersheds and being strong environmental stewards. The District's development of wetlands not only provides an additional source for water supply, but also provides a wide array of ancillary benefits, which include optimal habitat for wildlife, as well as educational and research opportunities. Details of the District's largest environmental and watershed protection program are discussed on the next page.

The District collects water samples every quarter from each reservoir. The costs to test these samples are included in the environmental cost budget and are projected to decrease in FY21 due to the restructuring of the support for stormwater sampling program.

	FY19 Actuals	FY20 Approved	FY21 Proposed	Variance	% Change
		Budget	Budget		
Water Efficiency Program	\$ 2,468,873	\$ 2,858,502	\$ 2,863,502	\$ 5,000	0.2%
Environmental	\$ 463,993	\$ 549,050	\$ 499,550	\$ (49,500)	-9.0%
Pollution Campaign	\$ 487,182	\$ 490,400	\$ 160,000	\$ (330,400)	-67.4%
Watershed Protection	\$ 217,777	\$ 369,182	\$ 369,950	\$ 768	0.2%
Reservoir Cleanups	\$ 54,128	\$ 41,000	\$ 42,000	\$ 1,000	2.4%
Total	\$ 3,691,953	\$ 4,308,134	\$ 3,935,002	\$ (373,132)	-8.7%



TRWD actively participates in an average of 60 events per year with the TRWD Stream Trailer.

Watershed Protection and Environmental Stewardship Budget (continued)

Water Efficiency Program

The Water Efficiency program has enabled TRWD to defer new supplies and capital costs. Last year the North Texas Municipal Water District (NTMWD) joined the TRWD-Dallas partnership, unifying the awareness campaign messaging and media buys. With the additional support the District has been able to increase our reach to the public through advertising and focus more on school education programs.

FY21 Water Efficiency Program

Program Area	Expenditures	Contributions	TRWD Portion
"Water is Awesome" Campaign	\$ 2,050,002	\$ 1,166,668	\$ 883,334
School Education Program	\$ 263,000		\$ 263,000
Regional Symposiums	\$ 24,000	\$ 19,000	\$ 5,000
Program Exhibits	\$ 6,000	\$ -	\$ 6,000
Video and Promotional Items	\$ 45,000	\$ -	\$ 45,000
Campaign Programs (waterwise, weekly watering, etc.)	\$ 444,000	\$ 20,000	\$ 424,000
Gardening & Landscape Workshops	\$ 31,500	\$ -	\$ 31,500
Total	\$ 2,863,502	\$ 1,205,668	\$ 1,657,834



Capital Budget

The District considers purchases of \$10K or greater for a piece of machinery or equipment to be a capital purchase. Purchases of property and construction costs of more than \$20K will also fall in the category of a capital asset. The FY21 budget includes \$175K for a two-way radio expansion project to insure continuous communication throughout the District's service area, where cell phone service may not be available. The budget also includes \$60K in continued construction costs to upgrade two pump station vibration units that were purchased in FY20. The FY21 capital expenditure budget is detailed below.

Capital Projects	FY21 Proposed Budget
Two-Way Radio Expansion	\$ 175,000
Admin Building Note	\$ 82,217
Two 6500 Vibration Units (continued from FY20)	\$ 60,000
Land Purchases	\$ 25,000
Total Capital Projects	\$ 342,217
Capital Equipment	
<u>Replacement:</u>	
4 - 1 Ton 4WD Cab & Chassis	\$ 190,000
4 -1/2 Ton 4WD Crew Cab Pickup	\$ 136,000
4 - 1/2 Ton 4WD Ext. Cap Pickup	\$ 121,000
1 Tractor 4WD 140HP with Cap	\$ 105,000
Heavy Duty 15' Flexwing Mower	\$ 21,000
All Terrain Crew Cab Utility Vehicle	\$ 17,800
	\$ 590,800
<u>Additions:</u>	
1 - 60KW Stand-by-Generator	\$ 31,000
1 - 45KW Stand-by-Generator	\$ 29,500
	\$ 60,500
Total Capital Equipment	\$ 651,300
Total Capital Expenditures	\$ 993,517

Vibration units help identify pump inefficiencies and potential damage following failure events. The data collected from the vibration units also help identify necessary preventative maintenance in order to avoid costly failures from occurring.



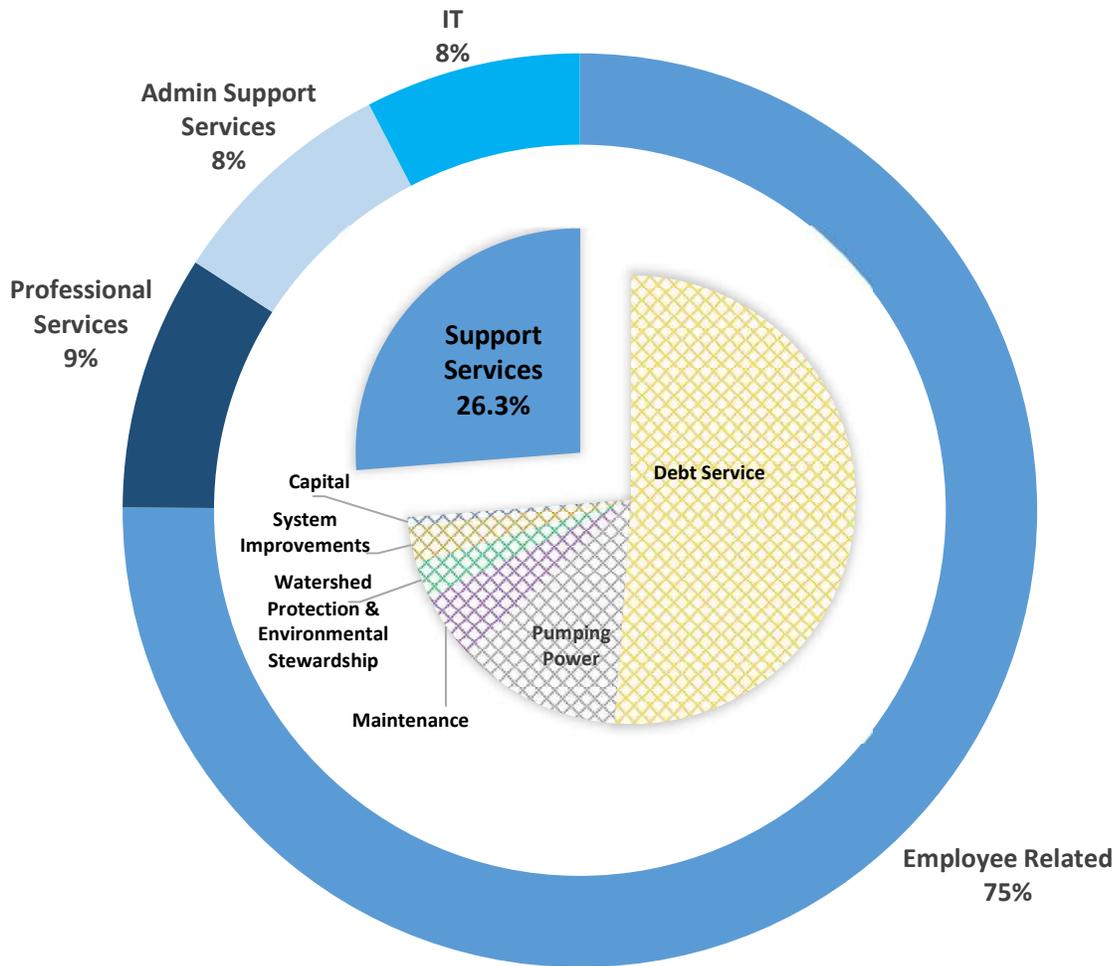
6500 Vibration Unit

Support Services Budget Overview

The support services budget consists of expenditures for services that support the District overall, including personnel and administrative costs. Employee related budgets make up 76% of the overall support services budget for FY21. Additional details of each of these areas will be discussed on the following pages.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Employee Related	\$ 22,555,223	\$ 28,136,544	\$ 30,035,516	\$ 1,898,972	6.7%
Professional Services	\$ 3,538,423	\$ 4,231,154	\$ 3,606,402	\$ (624,752)	-14.8%
Admin Support Services	\$ 2,544,099	\$ 3,211,326	\$ 3,301,268	\$ 89,942	2.8%
IT	\$ 1,816,051	\$ 2,331,409	\$ 3,050,151	\$ 718,742	30.8%
Total Support Services	\$ 30,453,796	\$ 37,910,433	\$ 39,993,337	\$ 2,082,904	5.5%

FY21 Proposed Budget

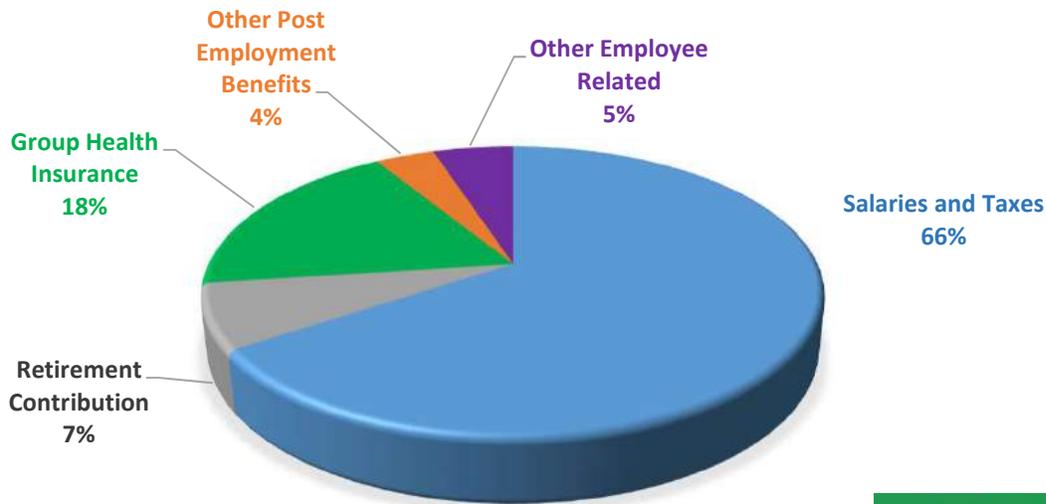


Support Services Employee Related Budget

The total Employee Related budget for FY21 is \$30M, representing an increase of 6.7% from the prior year's budget. The drivers for the increase in personnel costs were salary and retirement increases due to raises and promotions as well as three full-time positions added for FY21. A 10% increase in the Other Post Employment Benefits (OPEB) budget will be seen each year until 75% of the OPEB liability is funded. Other employee related budgets include business and travel, education, and the employee wellness program.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Salaries and Taxes	\$ 15,595,756	\$ 18,081,157	\$ 19,718,306	\$ 1,637,149	9.1%
Retirement Contribution	\$ 1,769,544	\$ 1,953,428	\$ 2,170,841	\$ 217,413	11.1%
Group Health Insurance	\$ 3,122,538	\$ 5,512,199	\$ 5,519,872	\$ 7,673	0.1%
Other Post Employment Benefits	\$ 922,383	\$ 1,014,621	\$ 1,116,083	\$ 101,462	10.0%
Other Employee Related	\$ 1,145,003	\$ 1,575,139	\$ 1,510,414	\$ (64,725)	-4.1%
Total	\$ 22,555,223	\$ 28,136,544	\$ 30,035,516	\$ 1,898,972	6.7%

FY21 Employee Related Budgets



Recruiting and retaining forward thinking and committed employees is a top priority for the District.



**Support Services
Professional Services Budget**

Legal and consulting services make up the majority of the FY21 professional services budget. Consulting costs decreased by \$669K due to the reduction of projects for FY21. Additional detail of the FY21 consulting service areas is shown in the chart below. The miscellaneous professional fees consists of the budgets for the annual audit, arbitration, and surveying and appraisal fees.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Consulting Fees	\$ 2,848,016	\$ 3,334,976	\$ 2,665,585	\$ (669,391)	-20.1%
Legal Fees	\$ 432,792	\$ 627,600	\$ 646,500	\$ 18,900	3.0%
Misc. Professional Fees	\$ 257,615	\$ 268,578	\$ 294,317	\$ 25,739	9.6%
Total	\$ 3,538,423	\$ 4,231,154	\$ 3,606,402	\$ (624,752)	-14.8%

FY21 Large Consulting Projects

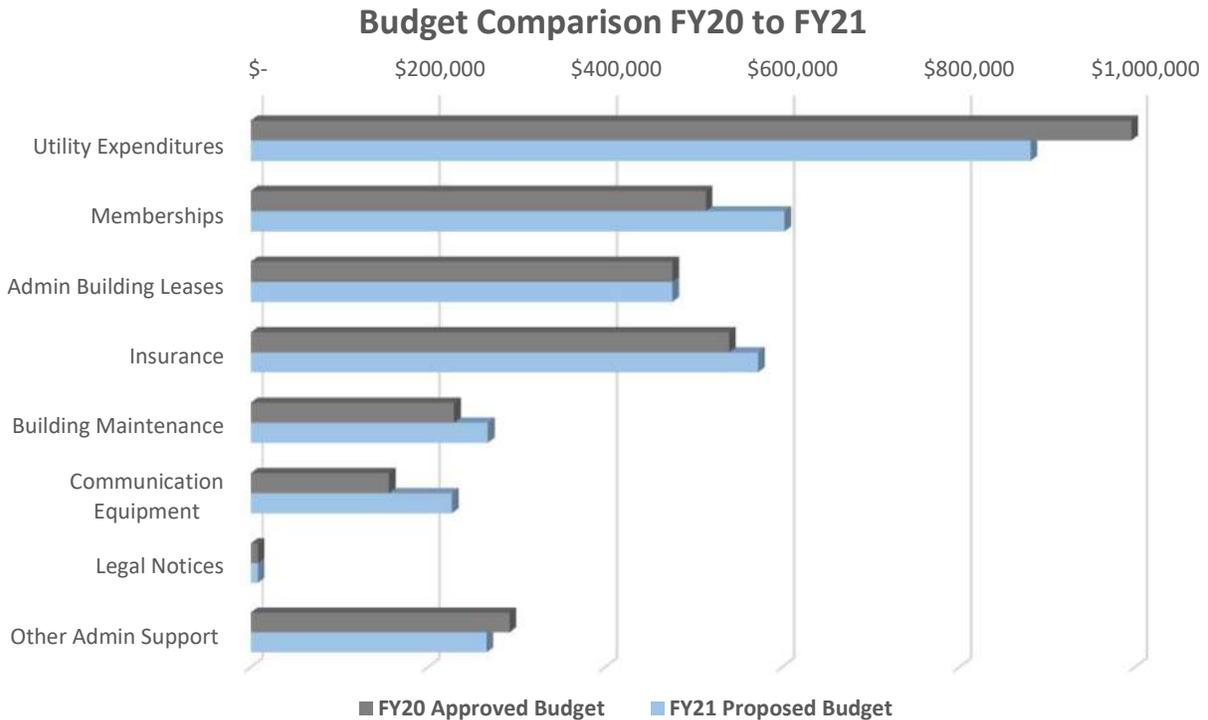
Cyber Security and Information Technology Consulting	\$ 650,790
Pipeline Infrastructure Testing and Studies	\$ 475,000
Riverware Software Support	\$ 100,000



Support Services Administrative Support Services Budget

The Administrative Support Services budget consists of overhead type expenditures. Utility costs are budgeted to decrease in FY21 due to the restructuring of the District's telephone contracts, and reducing the number of phone lines needed. The increase in communication equipment is the result of additional tower inspections and repairs needed for aging equipment. Additionally, the increase to membership dues is due to the increase in the costs of the District's water association and information technology memberships. The table and chart below show the budget changes from FY20 to FY21 for all administrative support areas.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Utility Expenditures	\$ 752,999	\$ 995,679	\$ 880,679	\$ (115,001)	-11.5%
Memberships	\$ 426,866	\$ 513,705	\$ 602,712	\$ 89,007	17.3%
Admin Building Leases	\$ 522,893	\$ 475,890	\$ 475,890	\$ -	0.0%
Insurance	\$ 392,921	\$ 540,120	\$ 572,765	\$ 32,645	6.0%
Building Maintenance	\$ 233,626	\$ 229,399	\$ 267,841	\$ 38,442	16.8%
Communication Equipment	\$ 20,908	\$ 156,270	\$ 227,065	\$ 70,795	45.3%
Legal Notices	\$ 5,497	\$ 8,060	\$ 8,060	\$ -	0.0%
Other Admin Support	\$ 188,389	\$ 292,203	\$ 266,257	\$ (25,946)	-8.9%
Total	\$ 2,544,099	\$ 3,211,326	\$ 3,301,268	\$ 89,942	2.8%

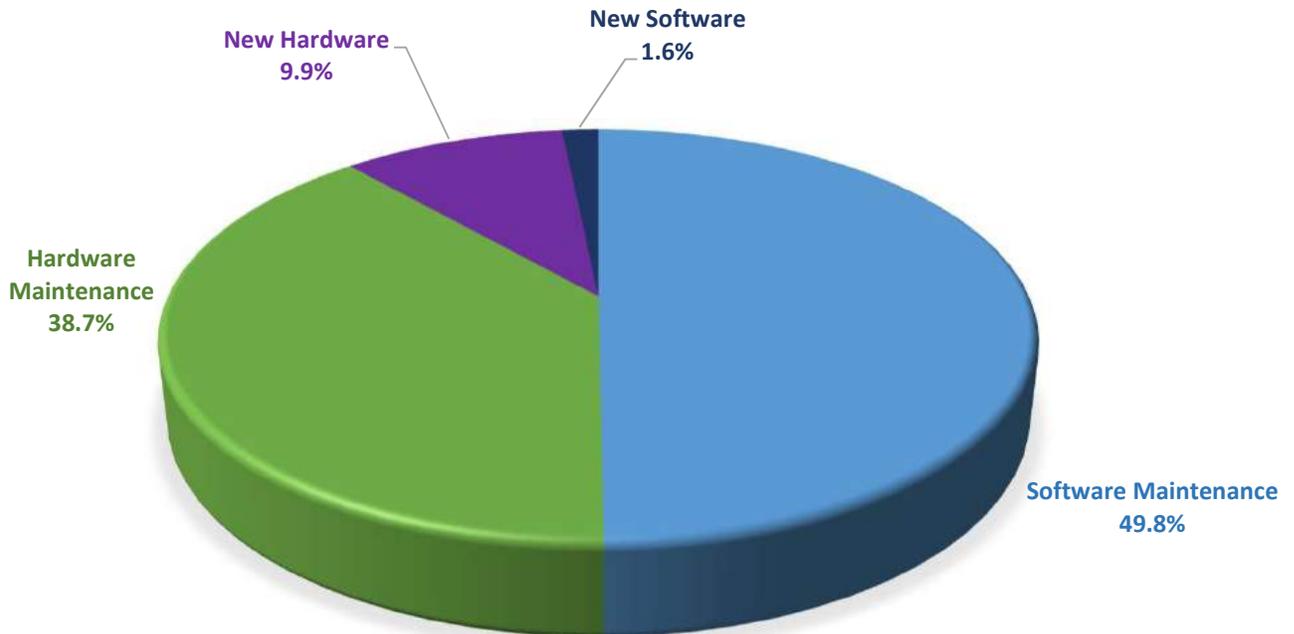


Support Services Information Technology Budget

The Information Technology budget is projected to increase in FY21 to keep up with the escalating threat of cyber attacks and data breaches. The cost to add needed additional modules and elements to existing software is increasing the software maintenance budget for FY21. In addition, the New Software budget includes a purchase of an Enterprise Information Management software, which will allow for increased data quality, cataloging, and metadata review across all platforms. Computer hardware maintenance costs are increasing due to the replacement of Aviat radios that are becoming obsolete. New hardware is increasing as well, due to the purchase of hardware to help transport independence, endpoint flexibility and network services across our network.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Software Maintenance	\$ 1,010,054	\$ 1,243,210	\$ 1,520,196	\$ 276,986	22.3%
Hardware Maintenance	\$ 506,686	\$ 965,349	\$ 1,179,360	\$ 214,011	22.2%
New Hardware	\$ 299,311	\$ 107,100	\$ 301,770	\$ 194,670	181.8%
New Software	\$ -	\$ 15,750	\$ 48,825	\$ 33,075	210.0%
Total	\$ 1,816,051	\$ 2,331,409	\$ 3,050,151	\$ 718,742	30.8%

FY21 Proposed IT Budget



Revenue Fund FY21 Budget

Revenues	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change	Notes*
Sale of Water	\$ 144,972,496	\$ 144,805,284	\$ (167,212)	-0.1%	
Interest Income	\$ 3,500,000	\$ 2,650,000	\$ (850,000)	-24.3%	
Dallas Water Utility	\$ 2,422,529	\$ 2,422,529	\$ -	0.0%	
Contributions	\$ 1,496,068	\$ 1,205,668	\$ (290,400)	-19.4%	
Excess Reserve Funds	\$ 1,390,000	\$ -	\$ (1,390,000)	100.0%	
Other Water Sales	\$ 500,000	\$ 500,000	\$ -	0.0%	
Leases/Concessions & Misc Revenue	\$ 491,201	\$ 770,033	\$ 278,832	56.8%	
Total Revenues	\$ 154,772,294	\$ 152,353,514	\$ (2,418,780)	-1.6%	

Expenditures	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change	Notes*
Debt Service	\$ 80,610,331	\$ 78,010,949	\$ (2,599,382)	-3.2%	
Pumping Power	\$ 20,000,000	\$ 18,000,000	\$ (2,000,000)	-10.0%	1
<u>Maintenance</u>					
Pipeline & Pump Station	\$ 4,170,500	\$ 3,647,000	\$ (523,500)	-12.6%	2
Facilities Maintenance	\$ 1,573,375	\$ 1,605,895	\$ 32,520	2.1%	
Equipment & Fleet	\$ 681,741	\$ 808,054	\$ 126,313	18.5%	3
Maintenance Support	\$ 607,763	\$ 626,816	\$ 19,053	3.1%	
Benbrook Reservoir O&M	\$ 465,600	\$ 515,000	\$ 49,400	10.6%	4
Stream Gauging Stations	\$ 250,000	\$ 215,000	\$ (35,000)	-14.0%	5
Total Maintenance	\$ 7,748,979	\$ 7,417,765	\$ (331,215)	-4.3%	
<u>Watershed Protection and Environmental Stewardship</u>					
Water Efficiency Program	\$ 2,858,502	\$ 2,863,502	\$ 5,000	0.2%	
Environmental	\$ 549,050	\$ 499,550	\$ (49,500)	-9.0%	
Pollution Campaign	\$ 490,400	\$ 160,000	\$ (330,400)	-67.4%	6
Watershed Protection	\$ 369,182	\$ 369,950	\$ 768	0.2%	
Reservoir Cleanups	\$ 41,000	\$ 42,000	\$ 1,000	2.4%	
Total Watershed Protection & Environmental Stewardship	\$ 4,308,134	\$ 3,935,002	\$ (373,132)	-8.7%	
Water System Improvements	\$ 3,281,700	\$ 4,002,945	\$ 721,245	22.0%	7
Capital	\$ 912,717	\$ 993,517	\$ 80,800	8.9%	
<u>Support Services</u>					
Employee Related	\$ 28,136,544	\$ 30,035,516	\$ 1,898,972	6.7%	8
Professional Services	\$ 4,231,154	\$ 3,606,402	\$ (624,752)	-14.8%	9
Admin Support Services	\$ 3,211,326	\$ 3,301,268	\$ 89,942	2.8%	
IT	\$ 2,331,409	\$ 3,050,151	\$ 718,742	30.8%	10
Total Support Services	\$ 37,910,433	\$ 39,993,337	\$ 2,082,904	5.5%	
Total Expenditures	\$ 154,772,294	\$ 152,353,514	\$ (2,418,780)	-1.6%	

*See explanations for significant variances on next page

Variance Explanations

1 Pumping Power

The decrease is due to projected usage and efficiency of the pipeline with IPL coming online.

2 Pipeline and Pumpstation Maintenance

The decrease is due to pump unit rebuilds and carbon fiber repairs that are not need in FY21.

3 Equipment and Fleet

The increase in equipment is due to the purchase of a new hydraulic torque wrench and chicken switches. Fleet repairs and supplies also increased due to the increased number of pipeline and generator units.

4 Benbrook Reservoir O&M

The increase in Benbrook Reservoir operations and maintenance is a result of the Corp of Engineers sending out updated estimates which showed increasing costs over the next 5 years.

5 Stream Gauging Stations

The decrease is due to removing certain measurements that are no longer needed.

6 Pollution Campaign

Pollution Campaign expenses have been scaled back due to the retooling of the campaign.

7 Water System Improvements

The increase in Water System Improvements is due to the updating the water resources plan.

8 Employee Related

Salaries and Taxes increase by approximately \$1,600,000 (9%) due to the following:

- Three additional positions focused on work related to the water supply system - \$240,000
- 2% increase for raises and 1% increase for promotions - \$580,000
- Market adjustments implemented in 2020 as a result of a salary benchmark study performed by an outside consultant - \$780,000

9 Professional Services

Professional services decreased due to the reduction of projects in FY21.

10 Information Technology

The increase in Information technology is due to the replacement of obsolete technology, purchase of new hardware and software to improve and expand our network, and increased cyber security software.

Revenue Fund - Appendix



Wetlands at Richland Chambers Reservoir

Memo

To: TRWD Board of Directors and Customer Advisory Committee

From: Dan Buhman

Date:

Re: 2021/ 2022 Capital Improvement Projects

The purpose of this memorandum is to provide a brief description of the capital improvement projects TRWD plans to undertake in 2021/2022. Many of these projects span multiple years. Funding for these projects is provided through revenue bonds, extendable commercial paper bonds, and through the TRWD Revenue Fund budget.

New Pipeline Parallel to, and in Same Right-of-Way as, Existing Pipeline: “Section 1D” - \$26.5M and “Section 1E” – \$5.5M

Summary: Sections 1D and 1E have been part of the TRWD water delivery capital improvement planning for more than a decade and are new pipeline sections (parallel to existing TRWD pipelines) that will ultimately connect from the Integrated Pipeline connection at the Kennedale Balancing Reservoir to the Rolling Hills WTP and TRWD’s Benbrook Connection pipeline.

Section 1D is the proposed pipeline section parallel to the existing TRWD pipelines from the Arlington Outlet to the City of Fort Worth’s Rolling Hills Water Treatment Plant. Section 1E is the proposed pipeline section parallel to the existing TRWD 90-inch-diameter pipeline around the City of Fort Worth’s Rolling Hills Water Treatment Plant. Both Sections 1D and 1E need to be constructed to realize the full operational benefits of a new parallel pipeline that can be isolated from the existing pipelines. However, Section 1E would provide benefits to the system if it is constructed first.

The existing 90-inch pipeline around the Rolling Hills Water Treatment Plant is fed by a 108-inch pipeline and an 84-inch pipeline. The system plan has always been to install a parallel pipeline (Section 1E) next to the 90-inch pipeline once demands grew to the point that the amount of water delivered through the single 90-inch pipeline was so much that it caused high velocities, high enough to put the pipeline and valves at risk of damage. Demands for terminal storage and at the water treatment plants are expected to reach the point where a parallel pipeline will be needed by the time it is designed and constructed.

Richland Chambers Dam/Embankment - Seepage & Stability Analysis and Modifications - \$5.25M

Summary: The Richland Chambers Dam has performed very well since filling over 30 years ago. Some areas between the dam and the TRWD constructed George Shannon Wetlands, along US 287, have exhibited seepage/wet soil conditions over the years. Construction of the wetlands has revealed sand boil formation in the treated water canal that appears to have resulted from deep-formation seepage from the reservoir or other sources. It is essential to identify and monitor these sources to determine if mitigation is required to reduce any potential hazards to the structural integrity of the dam.

Benbrook Lake Pump Station Zebra Mussel Control Facilities - \$8.5M

Summary: Lake Benbrook is identified as being at high risk for zebra mussel infestation. To date, no presence of zebra mussels has been found. This is TRWD’s sole lake pump station to not have chloramine feed or other means capable of preventing zebra mussel infestation in its water supply transmission mains and balancing reservoirs. A conceptual layout has already been studied for installing a sodium hypochlorite and ammonia feed system at the Benbrook Lake Pump Station, which is the basis for the \$8.5M capital cost.

However, copper ion is another zebra mussel control measure frequently employed to protect raw water transmission systems. Results of TRWD's two-year copper ion pilot test will be made available in the spring of 2020, after which time, and in coordination with customers, regulatory concerns will be addressed with TCEQ. Pending a favorable response, installation of a copper ion feed system, as a primary zebra mussel control measure for the Benbrook Lake Pump Station, would take place upon detection of zebra mussels in the source water. Both capital and life cycle costs for a copper ion system would be significantly reduced relative to a chloramine-based system, dropping to approximately \$1-\$2M for a copper ion system installation.

Arlington Outlet Dechlorination Facility Improvements - \$1.5M

Summary: The purpose of the Arlington Outlet Dechlorination Facility is to remove any chlorine residual that may remain in the raw water pipelines prior to release into Village Creek upstream of Lake Arlington for meeting water supply and terminal storage needs. Among the planned improvements to the dechlorination facility are a roof to protect the tanks, piping and pumping components from outdoor elements, improved ventilation, relocation of the sampling equipment, and additional sampling and injection taps on the three nearby TRWD transmission mains. Improvements are expected to begin in Fiscal Year 2022.

Continuation – Kennedale Balancing Reservoir Expansion, Phase 3 (Modifications to Existing Cells) - \$23M

Summary: Construction activity will be continuing at the Kennedale Balancing Reservoir (KBR). The first two phases – 108" Bypass Piping and the 3rd Cell Foundation have been completed. This third phase of construction, to be awarded in the summer of 2019 and implemented over a two-year period, involves the installation of 120-inch diameter flow-through inlet and outlet piping for the existing two cells, along with large diameter yard piping and valve connections to the Cedar Creek, Richland Chambers and Integrated Pipeline pipelines that supply KBR. Two large concrete splitter box weirs will be removed and current leakage attributed to existing cell inlets plugged. Enhanced operational flexibility and improved water quality will also result. The final phase after this construction, currently scheduled for the mid-2020s, is to complete the new 165 million gallon third cell at KBR providing additional emergency storage and optimized time of day operational capability. Capital cost projection for phase 3 cell modifications is approximately \$23M.

Integrated Water Supply Plan / Water Transmission System Masterplan - \$890,000

Summary: The Service Area Population and Water Demand Study will conclude in FY 2020. This allows us to proceed with a scheduled update of the Integrated Water Supply Plan (IWSP). In addition, we will initiate a Water Transmission System Masterplan. The IWSP will update water supply development scenarios last evaluated in 2013 and further evaluate strategies slated for inclusion in the 2021 Region C Regional Water Supply Plan. The IWSP evaluates supply development strategies based upon cost, and risk and provides decision trees that will allow ongoing evaluation to support decision making by TRWD governance, communication with the public, and coordination with our customers. The Water Transmission System Master Plan will be an in-depth evaluation of transmission system infrastructure needs and operations. It will utilize updated demand scenarios and water supply strategies and will address risks and water supply needs. This project will provide decision-making support to determine what facilities are needed and when based upon varying, and at times competing, factors of cost, redundancy, risk mitigation, operational flexibility and operational cost savings.

General Fund



Trinity River

Flood Protection



Trinity River

Flood Protection FY21 Budget Summary

TRWD Flood Protection Mission

Reduce the risk of flooding in our communities with dependable flood damage reduction infrastructure and operations.

Flood Protection Overview

TRWD was created during the 1920's in part to help protect Fort Worth from devastating floods that wreaked havoc on parts of the city. Since that time, the District has played an active role in protecting people and properties along the Trinity River. The District has and continues to work closely with the U.S. Army Corps of Engineers to maintain a 27-mile levee system built in the 1950's. Additionally, the District maintains both Marine Creek and Cement Creek to provide additional protection to the city during flooding events.

Each year the District works to efficiently and effectively manage the current flood protection infrastructure while at the same time looking ahead to prepare for potential future flood events.

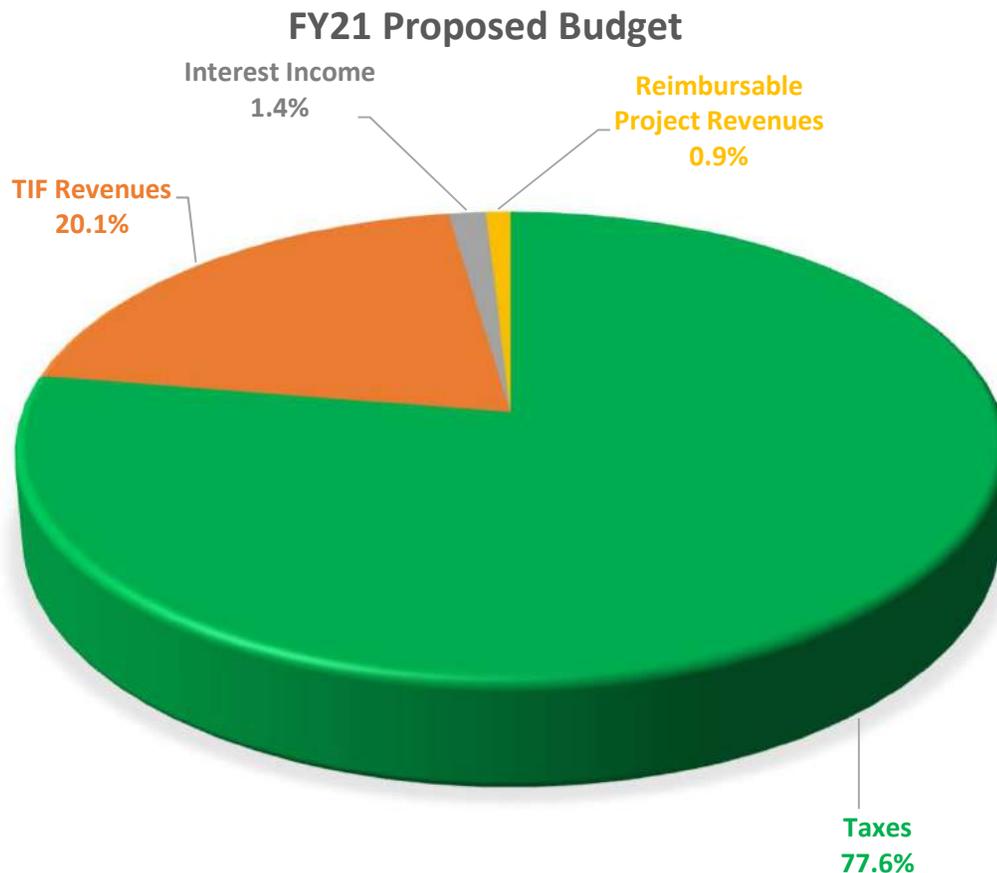
The annual budget includes both short term maintenance as well as long term strategies and structure implementation while working every year to increase practices for cost effective management of the system. The District believes in preparing now for the future in order to protect its citizens in the best possible manner.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget
Flood Protection System Revenues			
Taxes	\$ 13,152,496	\$ 21,000,000	\$ 21,000,000
Interest Income	\$ 1,504,414	\$ -	\$ 380,000
Total Revenues	\$ 14,656,910	\$ 21,000,000	\$ 21,380,000
Flood Protection System Expenditures			
Operating	\$ 15,491,068	\$ 18,998,639	\$ 19,038,347
Capital	\$ 1,268,603	\$ 1,934,500	\$ 1,378,100
Total Expenditures	\$ 16,759,671	\$ 20,933,139	\$ 20,416,447
Budgeted Net Increase to Equity	\$ (2,102,761)	\$ 66,861	\$ 963,553
Reimbursable Projects			
Reimbursable Project Revenues	\$ 883,903	\$ 1,622,600	\$ 250,000
Reimbursable Project Expenses	\$ 813,195	\$ 1,622,600	\$ 250,000
Total	\$ 70,708	\$ -	\$ -
Panther Island/Central City Project			
TIF Revenues	\$ 5,080,340	\$ 5,103,557	\$ 5,439,849
Debt Service Expense	\$ 550,971	\$ 5,103,557	\$ 5,439,849
Total	\$ 4,529,369	\$ -	\$ -
Budgeted Net Increase to Equity	\$ 2,497,315	\$ 66,861	\$ 963,553

Sources of Revenue

The following table and chart illustrate the sources of General Fund income and provide a comparison between FY21 and FY20 budgeted revenues. These revenue components provide the needed financial resources for the District to continue its Flood Protection mission each year. Each of the revenue sources will be discussed further in the upcoming sections.

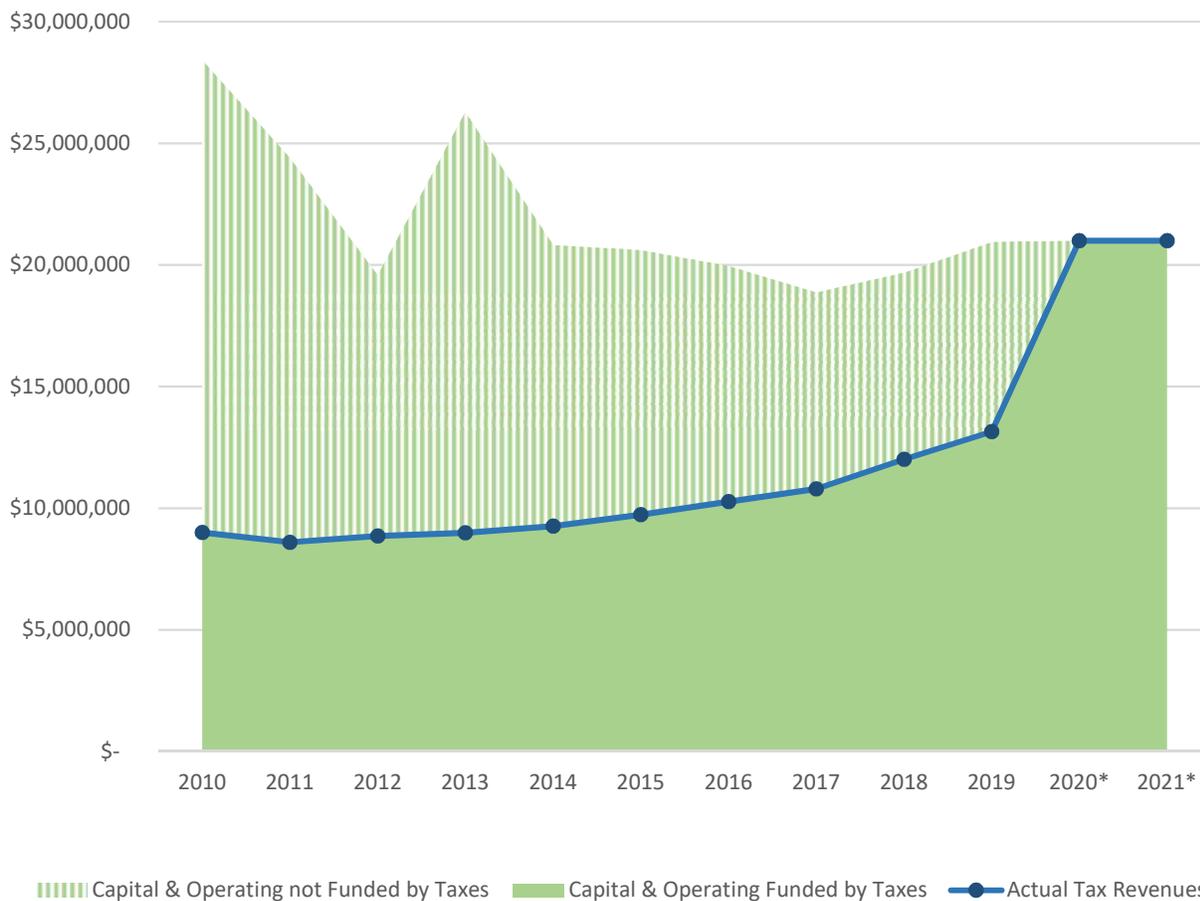
	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Taxes	\$ 13,152,496	\$ 21,000,000	\$ 21,000,000	\$ -	0.0%
TIF Revenues	\$ 5,080,340	\$ 5,103,557	\$ 5,439,849	\$ 336,292	6.6%
Interest Income	\$ 1,504,414	\$ -	\$ 380,000	\$ 380,000	100.0%
Reimbursable Project Revenues	\$ 883,903	\$ 1,622,600	\$ 250,000	\$ (1,372,600)	-84.6%
Total Revenues	\$ 20,621,153	\$ 27,726,157	\$ 27,069,849	\$ (656,308)	-2.4%



Tax Revenues

As a governmental entity, the District is empowered to levy and collect ad valorem taxes to meet the maintenance and operations expenses of its flood control and administrative functions. The District's ad valorem property tax is currently set at \$0.0287 per \$100 valuation and is projected to generate \$21 million in revenues for the District. This is based on a net taxable value of approximately \$76 billion and represents a projected tax burden of approximately \$58 for an estimated average home valued at \$202 thousand.

The chart below shows the Property Tax Revenues for the past 10 years compared to the Operating and Capital Budget. The difference between the Tax Revenues and the Operating and Capital Budget comes from Interest Income, Program Contributions, Oil & Gas Royalties, and Other Miscellaneous Income.



*Budgeted tax revenues

TIF Revenues and Debt for the Panther Island/Central City Project

In May 2018 a special bond election was held and approved by the voters to issue \$250M in bonds to finance the remaining outstanding local share of the Panther Island/Central City Project. This \$250M will be repaid by The City of Fort Worth Tax Increment Reimbursement Zone Number Nine (TIF9) in accordance with the project costs funding agreement. Fiscal year 2019 was the first year General Obligation debt service was a component of the General Fund Operating Budget. The table below illustrates how the TIF Revenues collected will directly offset the budgeted debt expenditures for FY21. To date \$1.5M in debt was issued and paid for by the TIF. Details of project expenditures for the fiscal year 2021 budget are located in the General Fund appendix.

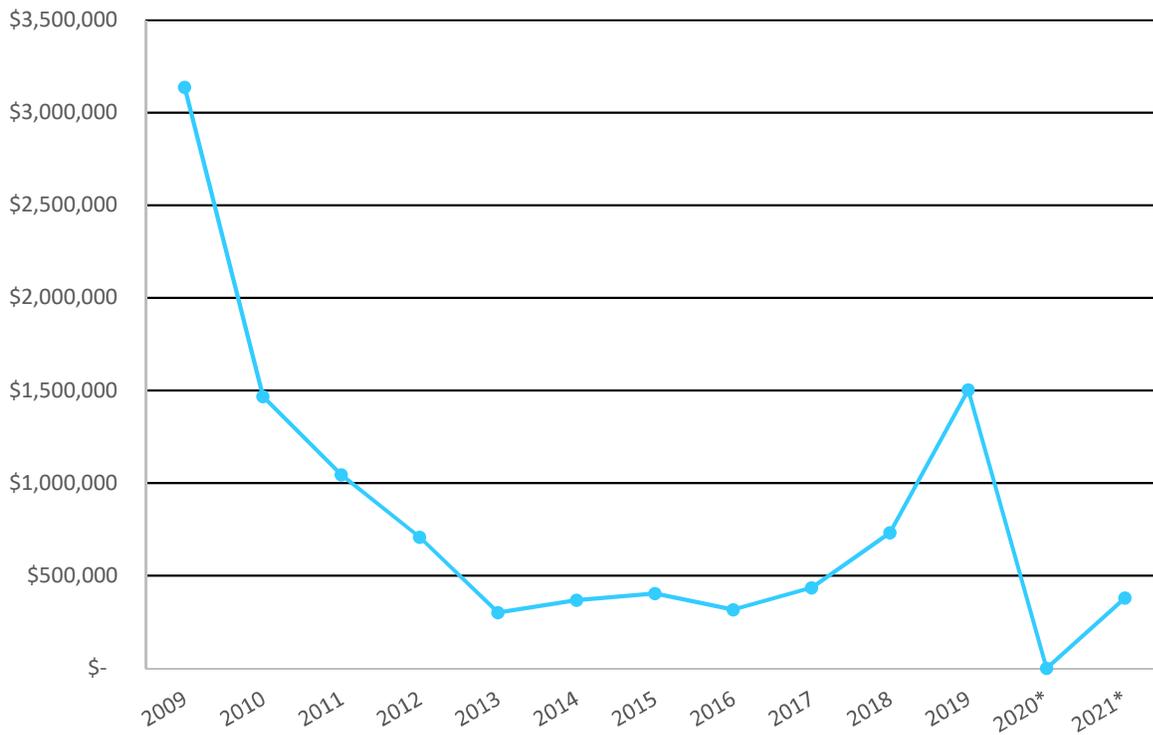
	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
TIF Revenues	\$ 5,080,340	\$ 5,103,557	\$ 5,439,849	\$ (336,292)	6.6%
Debt Service	\$ 550,971	\$ (5,103,557)	\$ (5,439,849)	\$ 336,292	-6.6%
Total	\$ 5,631,311	\$ -	\$ -	\$ -	0.0%

Interest Income

Interest income is generated from the District's General Fund investment portfolio. The portfolio consists of U.S. government and agency fixed income securities as well as investments in Local Government Investment Pools and has an average maturity of two years.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Interest Income	\$ 1,504,414	\$ -	\$ 380,000	\$ 380,000	100.0%

Investment Income History



*Budgeted investment income

Revenues from Reimbursable Projects

The District is proposing a \$250K budget for trail enhancement and extension projects in FY21. These projects will provide significantly enhanced access to the Trinity River Trails and all costs associated with these projects are 100% reimbursable from Chisholm Trail Mitigation money through an interlocal agreement with the City of Fort Worth. The reduced revenues are a result of many projects associated with the interlocal agreement already being completed and the funds be close to depletion.

For FY21, the project revenue for the Pollution Campaign in zero due to a retooling of the campaign.

Reimbursable Project	FY20 Approved	FY21 Proposed	Variance	% Change
	Budget	Budget		
Chisholm Trail Mitigation Projects	\$ 1,500,000	\$ 250,000	\$ (1,250,000)	16.7%
Pollution Campaign Contributions	\$ 122,600	\$ -	\$ (122,600)	-100.0%
Total	\$ 1,622,600	\$ 250,000	\$ (1,372,600)	-84.6%



The Riverglen Trailhead is a newly completed project. This project cost was fully reimbursed from Chisholm Trail Mitigation funds.

FY21 Operating Expenditures

Strategic Objectives

A draft of the 2020-2022 TRWD Strategic Plan is pending Board Approval. Strategic Objectives in the plan establish the District's priorities. The General Fund operating budget centers around accomplishing these objectives.

Objective 1: Further TRWD's flood control mission through regional partnerships.

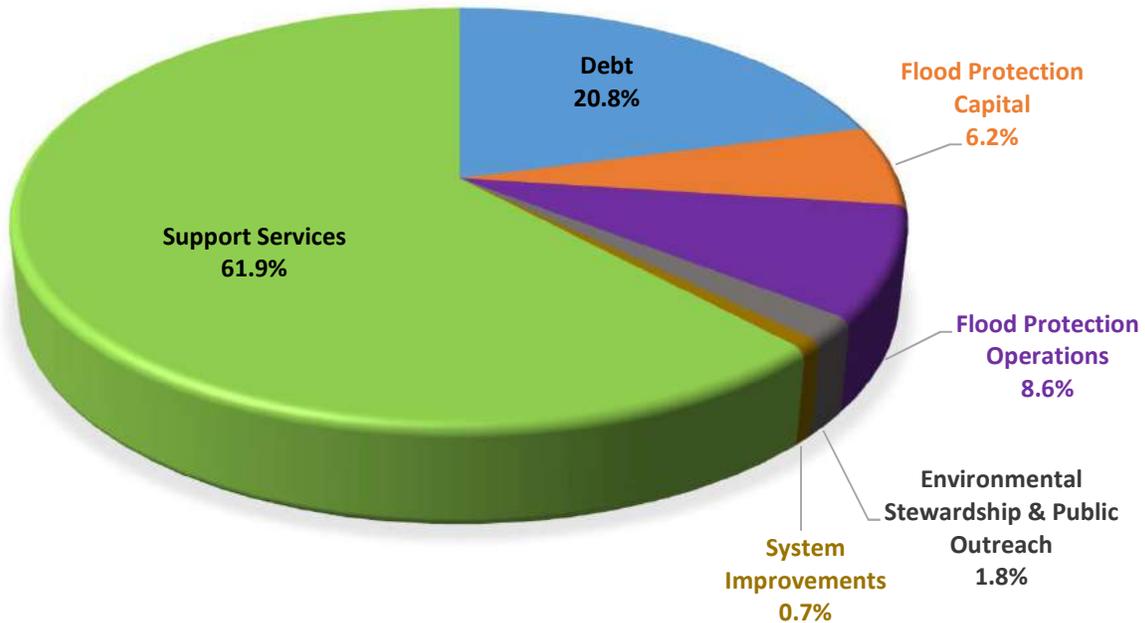
Objective 2: Responsible management of TRWD assets.

Objective 3: Further TRWD as an employer of choice.

Objective 4: Foster TRWD relationships.

Objective 5: Emergency preparedness and management.

FY21 Approved Budget

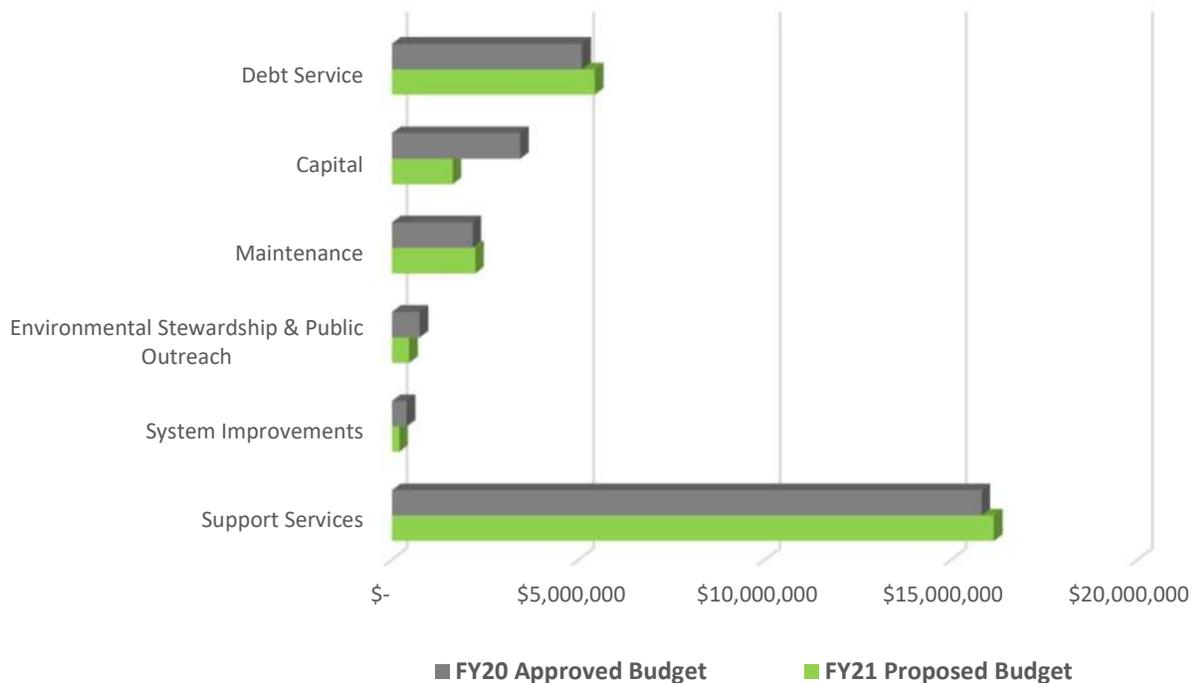


Expenditure Budget Overview

The FY21 Flood Protection Operating Budget is presented below in budget categories. Flood protection capital, system improvement projects and operation maintenance budgets are directly related to costs associated with the District's commitment to reducing the public's risk of flooding. Through continued efforts with programs like Stormwater management and the Reverse Litter Campaign, environmental stewardship and public outreach have become a vital element of the District's overall operating budget. The Flood Protection operations are supported through administrative and professional services, information technology and a staff committed to the Flood Protection mission. Additional details of the budget categories will be provided on the following pages.

Budget Categories	FY20 Approved Budget		FY21 Proposed Budget		Variance	% Change
	FY19 Actuals	Budget	Budget	Budget		
Debt Service	\$ 550,971	\$ 5,103,557	\$ 5,439,849	\$ 336,292	6.6%	
Capital	\$ 1,960,003	\$ 3,434,500	\$ 1,628,100	\$ (1,806,400)	-52.6%	
Maintenance	\$ 2,216,274	\$ 2,161,040	\$ 2,235,055	\$ 74,015	3.4%	
Environmental Stewardship & Public Outreach	\$ 296,188	\$ 740,811	\$ 464,388	\$ (276,423)	-37.3%	
System Improvements	\$ 53,256	\$ 400,000	\$ 192,000	\$ (208,000)	-52.0%	
Support Services	\$ 13,047,146	\$ 15,819,388	\$ 16,146,904	\$ 327,516	2.1%	
Total	\$ 18,123,838	\$ 27,659,296	\$ 26,106,296	\$ (1,553,000)	-5.6%	

Budget Comparison FY20 to FY21



Debt for Panther Island /Central City Project

In May 2018 a special bond election was held and approved by the voters to issue \$250 million in bonds to finance the remaining outstanding local share of the Panther Island/Central City Project. This \$250 million will be repaid by The City of Fort Worth Tax Increment Reimbursement Zone Number Nine (TIF9) in accordance with the project costs funding agreement. Fiscal year 2019 was the first year General Obligation debt service was a component of the General Fund Operating Budget. The table below illustrates how the TIF Revenues collected will directly off-set the budgeted debt expenditures for FY21. To date, \$1.5M in bonds have been issued. Attached in the General Fund Appendix is a detail of what work is planned for 2021.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance
Debt Service	\$ 550,971	\$ 5,103,557	\$ 5,439,849	\$ (336,292)
TIF Revenue	\$ (5,080,340)	\$ (5,103,557)	\$ (5,439,849)	\$ 336,292
Total	\$ (4,529,369)	\$ -	\$ -	\$ -



The Panther Island/Central City Project is limited to infrastructure improvements, environmental cleanup and flood protection.

Capital Budget

The District considers purchases of \$10K or greater for machinery and equipment to be a capital purchase. Purchases of property and construction costing \$20K or more will also fall in the category of a capital asset. The FY21 budget includes a \$1M budget for trail construction, of which \$250K is 100% reimbursable through an interlocal agreement with the City of Fort Worth. The other project included in the trail construction budget is a trail redesign and expansion along the Clearfork. The budgets for all of the approved capital purchases are listed below.

Capital Projects	FY21 Proposed Budget
Trail Construction Projects	\$ 750,000
Chisholm Trail Mitigation Projects	\$ 250,000 *
Panther Island/Central City Canal Construction	\$ 50,000
Two Way Radio Expansion	\$ 33,250
Land Easements along the Floodway	\$ 25,000
Total Capital Projects	\$ 1,108,250

Capital Equipment	FY21 Proposed Budget
Replacement	
1 - Tractor 4WD 140HP w/ Cab	\$ 105,000
1 - Heavy Duty Compact Loader	\$ 91,000
1 - Tractor 4WD Utility w/ Cab	\$ 81,000
1 - Full size SUV 4WD	\$ 60,250
1 - Heavy Duty Brush Bandit	\$ 58,000
1 - 3/4 Ton 4WD Ext Cab Pickup	\$ 42,500
Portable 185CFM Air Compressor	\$ 23,000
	\$ 460,750
Additions	
Heavy Duty Litter Picker	\$ 59,100
	\$ 59,100
Total Capital Equipment	\$ 519,850
Total Capital Expenditures	\$ 1,628,100

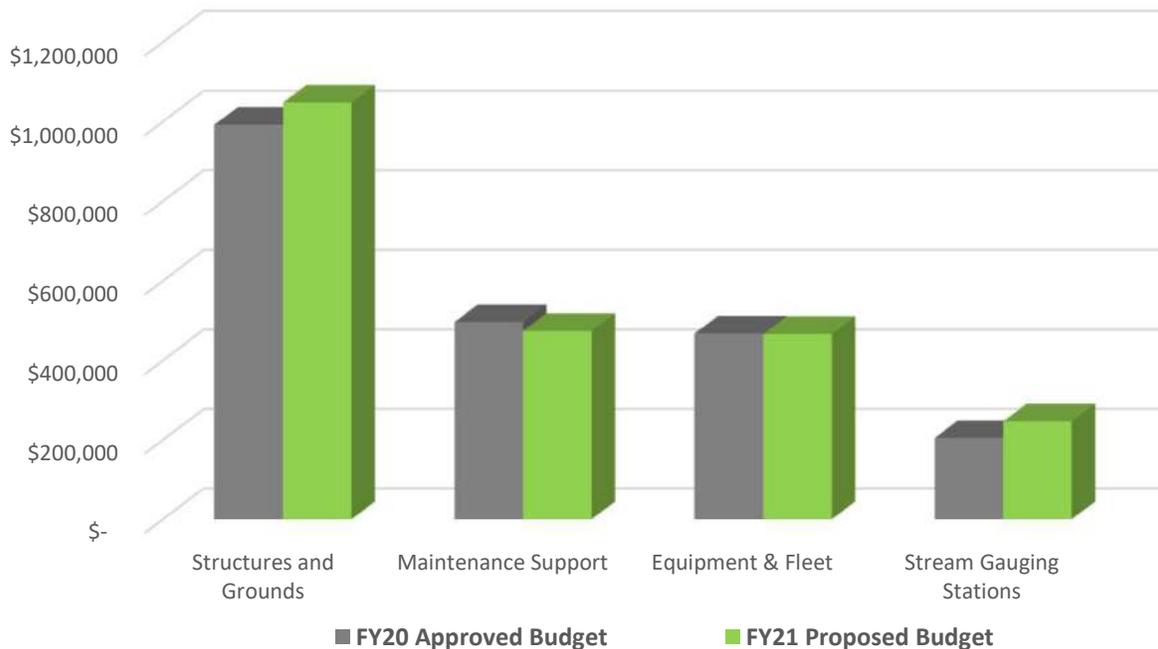
*Reimbursable Project - see revenue section

Maintenance Budget

The Flood Protection Operations Budget consists of maintenance budgets that are directly related to the Flood Protection strategic goals. In FY21, the overall maintenance costs are budgeted to increase by 3.4%. The majority of the increase is in structure and grounds costs, which is due to the demolition of the old Lake Patrol office and increased repairs to aging structures. Additionally, Stream Gauge support increased due to the addition and upgrade of gauges along the floodway.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Structures and Grounds	\$ 1,181,156	\$ 992,100	\$ 1,047,740	\$ 55,640	5.6%
Maintenance Support	\$ 419,767	\$ 496,313	\$ 474,063	\$ (22,251)	-4.5%
Equipment & Fleet	\$ 455,460	\$ 467,627	\$ 466,252	\$ (1,375)	-0.3%
Stream Gauging Stations	\$ 159,891	\$ 205,000	\$ 247,000	\$ 42,000	20.5%
Total	\$ 2,216,274	\$ 2,161,040	\$ 2,235,055	\$ 74,015	3.4%

Budget Comparison FY20 to FY21



Environmental Stewardship and Public Outreach Budget

Environmental Stewardship is one of the District's primary strategic goals. As owners and operators of the Fort Worth Floodway, protecting the quality of the water in the Trinity River is a priority. The Stormwater Program identifies and implements strategies to improve Stormwater quality before it enters the river. The Environmental budget also consists of routine water testing costs, which are projected to decrease in FY21 due to a restructuring of the support for Stormwater sampling. Additionally, the Pollution Campaign costs are also decreasing to allow the District to retool the campaign project.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Stormwater Program	\$ 43,549	\$ 250,000	\$ 220,000	\$ (30,000)	-12.0%
Environmental Costs	\$ 40,182	\$ 248,100	\$ 98,100	\$ (150,000)	-60.5%
Pollution Campaign	\$ 121,796	\$ 122,600	\$ 40,000	\$ (82,600)	-67.4%
Public Outreach	\$ 90,661	\$ 120,111	\$ 106,288	\$ (13,823)	-11.5%
Total	\$ 296,188	\$ 740,811	\$ 464,388	\$ (276,423)	-37.3%



Sampling of the Trinity River is performed monthly from five different locations along the Floodway.

System Improvement Budget

A component of the Flood Protection budget is system improvement projects. The following table provides a list of the approved projects for FY21.

Projects	FY21 Proposed Budget
Evaluations of Flood Levels for FW Floodway	\$ 100,000
Trail Resurfacing	\$ 40,000
Lake Patrol Office Abatement and Demolition	\$ 25,000
Marine Creek Dam Perimeter Fence	\$ 20,000
Lake Patrol Specialty Equipment	\$ 7,000
Total	\$ 192,000



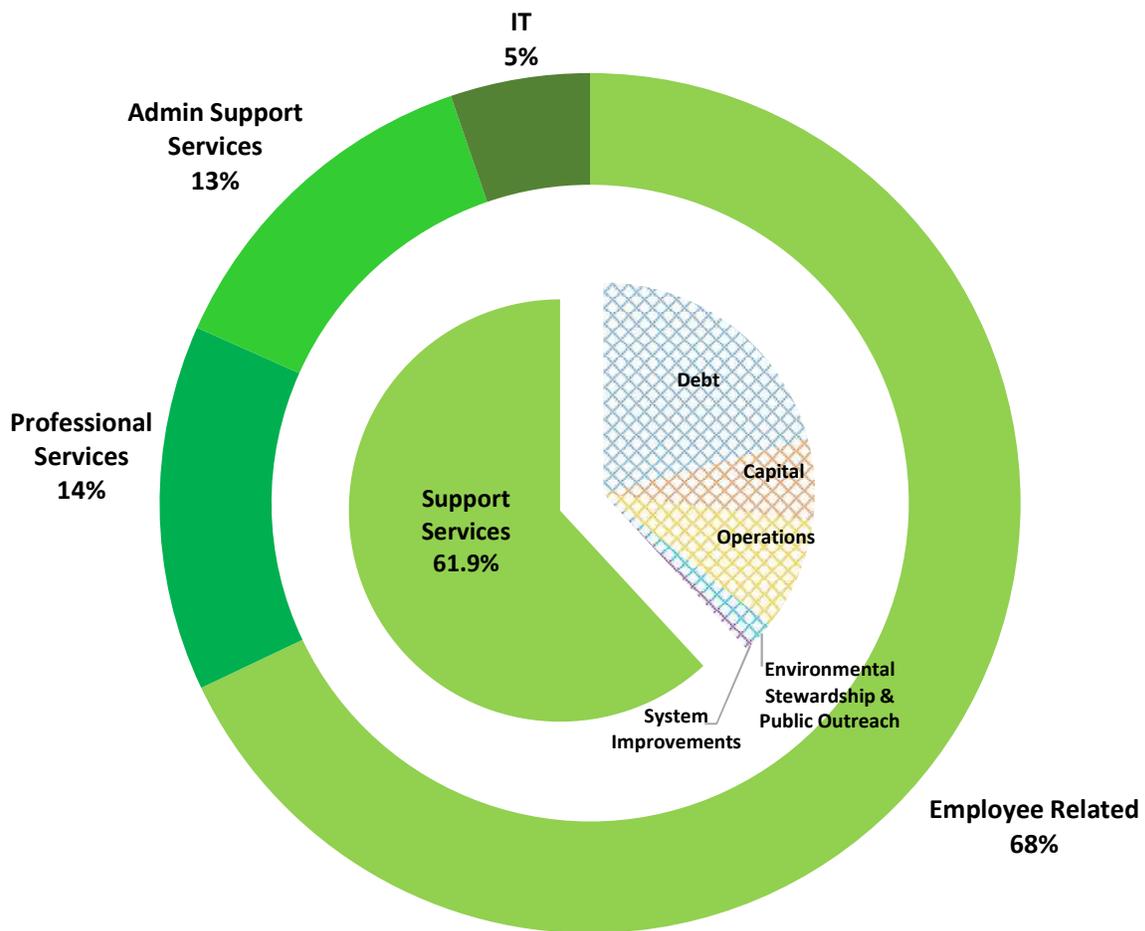
Trail resurfacing enhances the trails for safety and sustainability. Shown here is a resurfacing project that will replace the weathered asphalt.

Support Services Budget Overview

The Support Services budget consists of expenditures for services that support the District overall including personnel and administrative costs. Employee related budgets make up almost 70% of the overall support services budget for FY21. As shown in the table below, support budgets are proposed to increase by 2.1% for FY21 as compared to FY20. Additional details of each of these areas will be discussed on the following pages.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Employee Related	\$ 8,758,967	\$ 10,988,916	\$ 10,969,131	\$ (19,785)	-0.2%
Professional Services	\$ 1,750,621	\$ 2,133,712	\$ 2,221,128	\$ 87,416	4.1%
Admin Support Services	\$ 1,925,226	\$ 2,059,643	\$ 2,110,089	\$ 50,446	2.4%
IT	\$ 612,331	\$ 637,117	\$ 846,557	\$ 209,440	32.9%
Total	\$ 13,047,146	\$ 15,819,388	\$ 16,146,904	\$ 327,516	2.1%

FY21 Support Services Budget

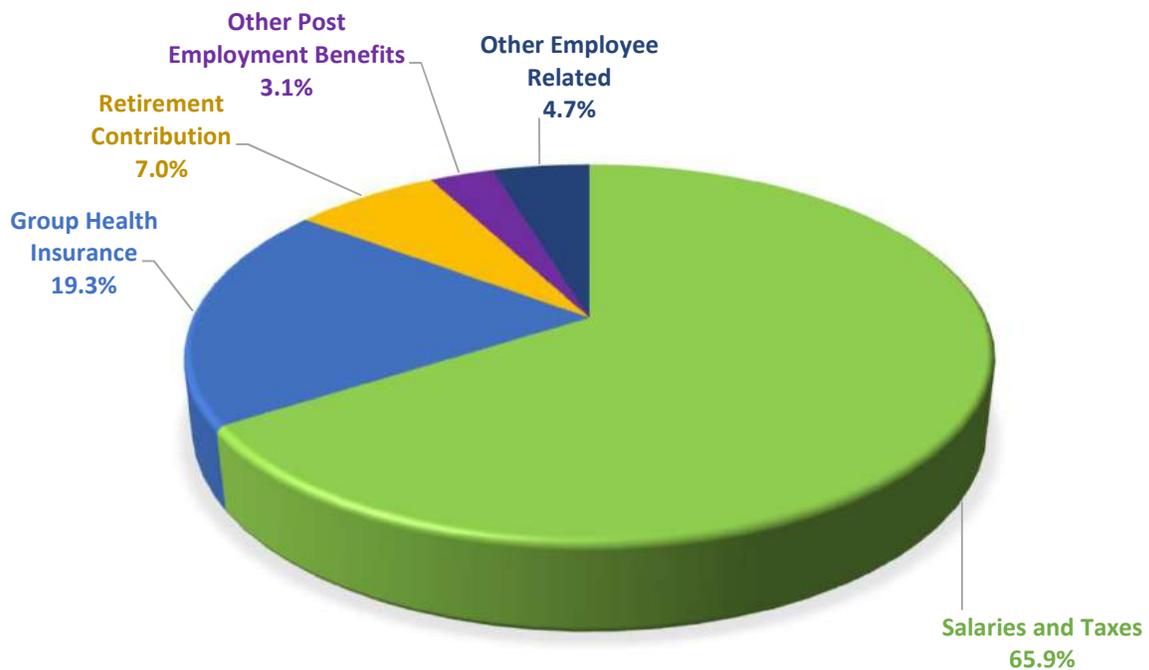


**Support Services
Employee Related Budget**

Total Employee Related expenditures budgeted for FY21 are \$10.9M, representing a decrease of .2% from prior year's budget. A 10% increase in the Other Post Employment Benefits (OPEB) budget will be seen each year until 75% of the OPEB Trust is funded. Other employee related costs include business and travel, education, and the employee wellness program.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Salaries and Taxes	\$ 5,808,155	\$ 6,966,000	\$ 7,231,232	\$ 265,232	3.8%
Group Health Insurance	\$ 1,637,766	\$ 2,460,765	\$ 2,119,995	\$ (340,770)	-13.8%
Retirement Contribution	\$ 647,181	\$ 725,719	\$ 768,805	\$ 43,086	5.9%
Other Post Employment Benefits	\$ 278,179	\$ 305,997	\$ 336,597	\$ 30,600	10.0%
Other Employee Related	\$ 387,687	\$ 530,435	\$ 512,503	\$ (17,932)	-3.4%
Total	\$ 8,758,967	\$ 10,988,916	\$ 10,969,131	\$ (19,785)	-0.2%

FY21 Employee Related Budget

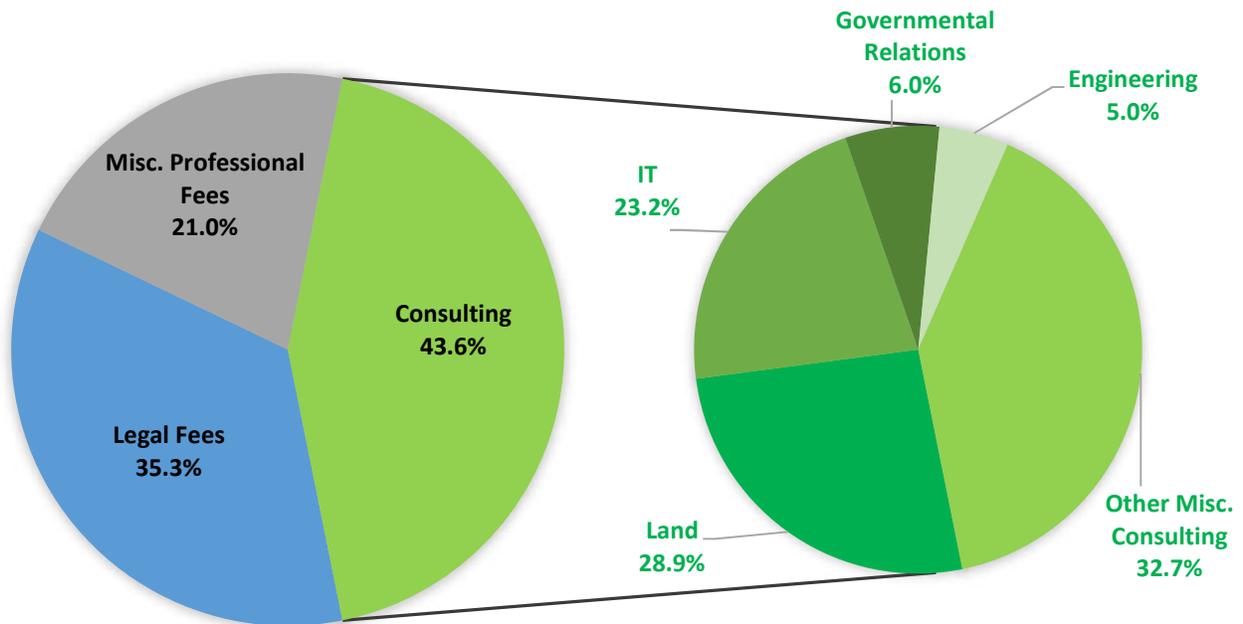


**Support Services
Professional Services Budget**

Legal and consulting services make up the majority of the FY21 Professional Services budget. Additional detail of the consulting service areas is shown in the chart below. The miscellaneous professional fee's budget is the annual budget for the financial audit, surveying and other professional fees.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Consulting Fees	\$ 590,746	\$ 875,452	\$ 969,405	\$ 93,953	10.7%
Legal Fees	\$ 817,921	\$ 778,800	\$ 784,500	\$ 5,700	0.7%
Misc. Professional Fees	\$ 341,953	\$ 479,460	\$ 467,223	\$ (12,237)	-2.6%
Total	\$ 1,750,621	\$ 2,133,712	\$ 2,221,128	\$ 87,416	4.1%

FY21 Professional Services with Consulting Budget Breakout

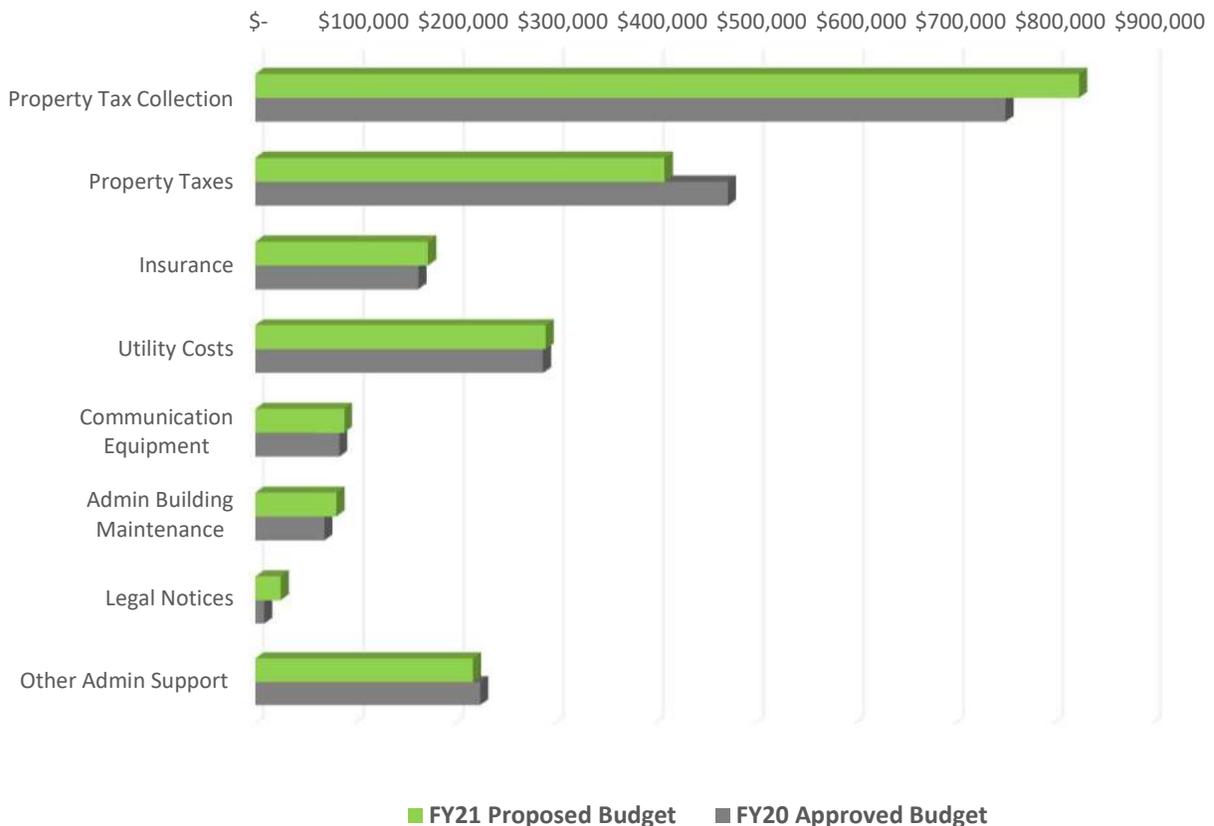


**Support Services
Administrative Support Services Budget**

The Administrative Support Services budget consists of overhead type expenditures. The largest increase for the FY21 budget can be seen in legal notices, due to FY21 being an election year. Due to the District's increased tax rate in FY20, the property tax collection costs have also increased. Property taxes decreased due to the completion of TIF #7. The table and chart below shows the budget changes from FY20 to FY21 for all administrative support budget areas.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Property Tax Collection	\$ 722,597	\$ 750,000	\$ 825,000	\$ 75,000	10.0%
Property Taxes	\$ 552,631	\$ 472,507	\$ 409,371	\$ (63,136)	-13.4%
Insurance	\$ 118,500	\$ 162,893	\$ 172,739	\$ 9,846	6.0%
Utility Costs	\$ 257,825	\$ 287,711	\$ 290,411	\$ 2,700	0.9%
Communication Equipment	\$ 32,934	\$ 84,010	\$ 88,745	\$ 4,735	5.6%
Admin Building Maintenance	\$ 70,459	\$ 69,184	\$ 80,778	\$ 11,594	16.8%
Legal Notices	\$ 1,960	\$ 8,780	\$ 25,280	\$ 16,500	187.9%
Other Admin Support	\$ 168,320	\$ 224,558	\$ 217,767	\$ (6,791)	-3.0%
Total	\$ 1,925,226	\$ 2,059,643	\$ 2,110,089	\$ 50,446	2.4%

Budget Comparison FY20 to FY21

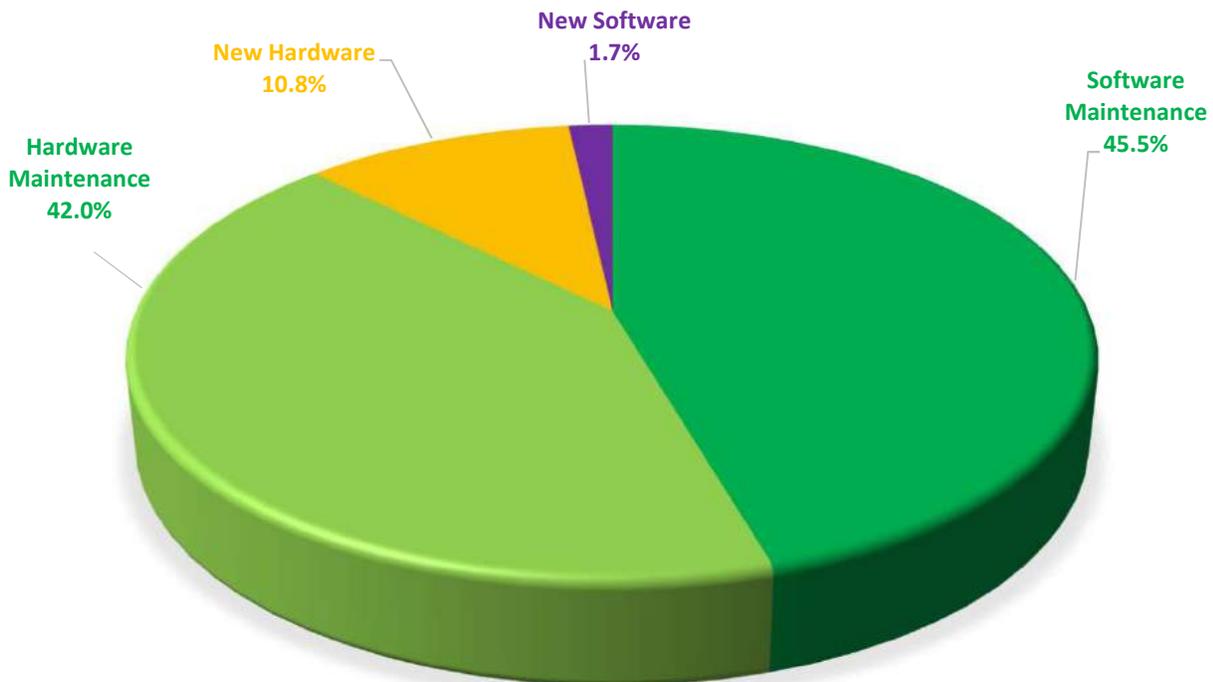


**Support Services
Information Technology Budget**

Software and Hardware maintenance budgets are increasing to accommodate the increase in maintenance related to the increased number of devices deployed to operate our expanded system over the last two years. The New Software budget includes a purchase of the Enterprise Information Management software, which will allow for increased data quality, cataloging, and metadata review across all platforms. New Hardware is increasing to support the technology needed to manage and fully utilize the multiple paths for network traffic now available on the District system, created to ensure reliable and resilient operations.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Software Maintenance	\$ 369,253	\$ 308,930	\$ 385,142	\$ 76,212	24.7%
Hardware Maintenance	\$ 152,810	\$ 291,137	\$ 355,680	\$ 64,543	22.2%
New Hardware	\$ 90,268	\$ 32,300	\$ 91,010	\$ 58,710	181.8%
New Software	\$ -	\$ 4,750	\$ 14,725	\$ 9,975	210.0%
Total	\$ 612,331	\$ 637,117	\$ 846,557	\$ 209,440	32.9%

FY21 Proposed IT Budget



General Fund - Flood Protection FY21 Budget

Revenues	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Taxes	\$ 21,000,000	\$ 21,000,000	\$ -	0.0%
TIF Revenues	\$ 5,103,557	\$ 5,439,849	\$ 336,292	6.6%
Interest Income	\$ -	\$ 380,000	\$ 380,000	100.0%
Reimbursable Project Revenues	\$ 1,622,600	\$ 250,000	\$ (1,372,600)	-84.6%
Total Revenues	\$ 27,726,157	\$ 27,069,849	\$ (656,308)	-2.4%

Expenditures	FY20 Approved Budget	FY21 Proposed Budget	Variance	Notes*
Debt Service	\$ 5,103,557	\$ 5,439,849	\$ 336,292	6.6%
Capital	\$ 3,434,500	\$ 1,628,100	\$ (1,806,400)	-52.6% 1
<u>Maintenance</u>				
Structures and Grounds	\$ 992,100	\$ 1,047,740	\$ 55,640	5.6%
Maintenance Support	\$ 496,313	\$ 474,063	\$ (22,251)	-4.5%
Equipment & Fleet	\$ 467,627	\$ 466,252	\$ (1,375)	-0.3%
Stream Gauging Stations	\$ 205,000	\$ 247,000	\$ 42,000	20.5% 2
Total Maintenance	\$ 2,161,040	\$ 2,235,055	\$ 74,015	3.4%
<u>Environmental Stewardship and Public Outreach</u>				
Stormwater Program	\$ 250,000	\$ 220,000	\$ (30,000)	-12.0% 3
Environmental	\$ 248,100	\$ 98,100	\$ (150,000)	-60.5% 4
Pollution Campaign	\$ 122,600	\$ 40,000	\$ (82,600)	-67.4% 5
Public Outreach	\$ 120,111	\$ 106,288	\$ (13,823)	-11.5% 6
Total Environmental Stewardship and Public Outreach	\$ 740,811	\$ 464,388	\$ (276,423)	-37.3%
System Improvements	\$ 400,000	\$ 192,000	\$ (208,000)	-52.0% 7
<u>Support Services</u>				
Employee Related	\$ 10,988,916	\$ 10,969,131	\$ (19,785)	-0.2%
Professional Services	\$ 2,133,712	\$ 2,221,128	\$ 87,416	4.1%
Admin Support Services	\$ 2,059,643	\$ 2,110,089	\$ 50,446	2.4%
IT	\$ 637,117	\$ 846,557	\$ 209,440	32.9% 8
Total Support Services	\$ 15,819,388	\$ 16,146,904	\$ 327,516	2.1%
Total Expenditures	\$ 27,659,296	\$ 26,106,296	\$ (1,553,000)	-5.6%

Budgeted Net Increase to Equity	\$ 66,861	\$ 963,553	\$ 896,692	1341.1%
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*See explanations for significant variances on next page

Variance Explanations

1 Capital

The capital budget decreased due to the completion of the Interlocal Agreement with the City of Fort Worth in FY21, as well as decreased construction costs for the Panther Island/Central City project.

2 Stream Gauge Stations

The increase in the Stream Gauge budget is due to additional stream gauges and upgrade of gauges along the floodway.

3 Stormwater Program

The Stormwater program decrease is due to the reduced spending of the education program for developers and partners.

4 Environmental

The Environmental budget consists of routine water testing costs, which are projected to decrease in FY21 due to a restructuring of the support for Stormwater sampling.

5 Pollution Campaign

Pollution Campaign expenses have been scaled back due to the retooling of the campaign.

6 Public Outreach

Due to a reevaluation of sponsorships the Public Outreach budget has been decreased.

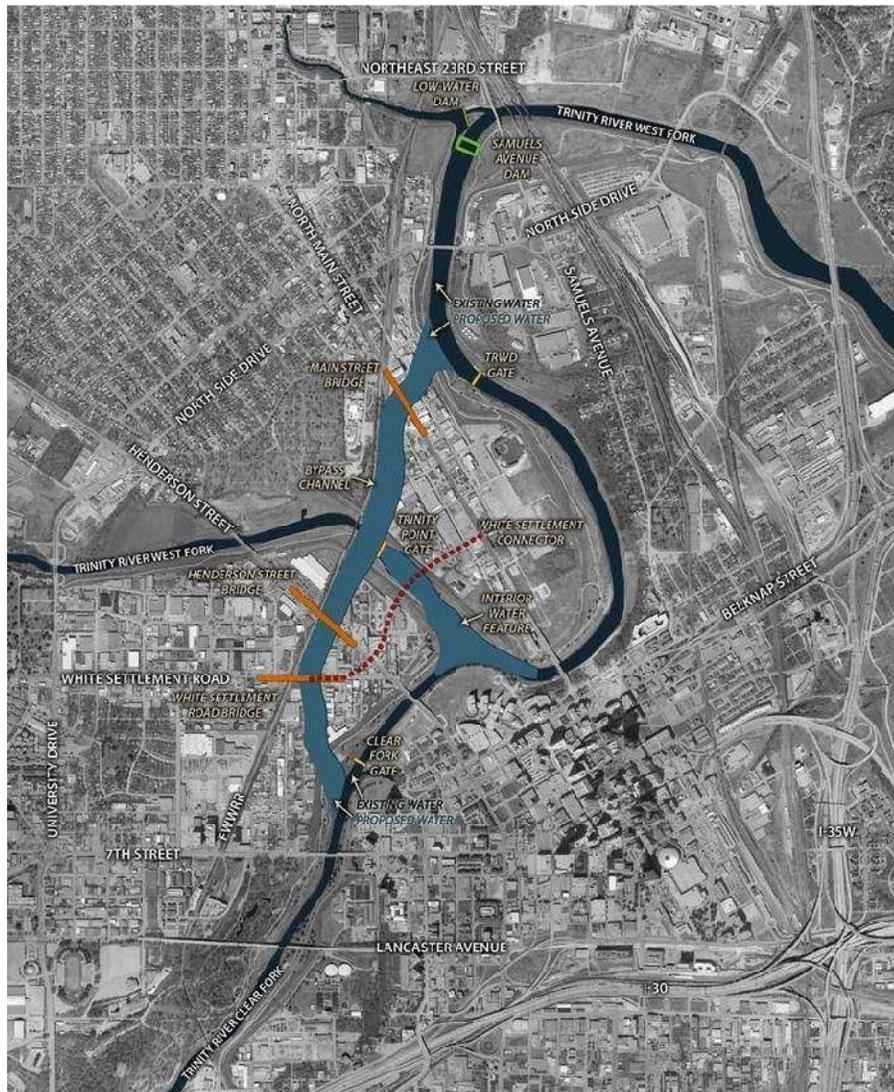
7 System Improvements

The decrease in the System Improvements budget is due to the completion of replacing the valves in the 4th street dam.

8 Information Technology

The increase in Information technology is due to the replacement of obsolete technology, purchase of new hardware and software to improve and expand our network, and increased cyber security software.

General Fund - Appendix



Panther Island/Central City Project

General Fund - Appendix - Panther Island/Central City Project

Below is a summary of the planned expenses for the TRV project for FY 2021. All of the TRWD - TRV costs will be paid by bonds and reimbursed by TIF revenues.

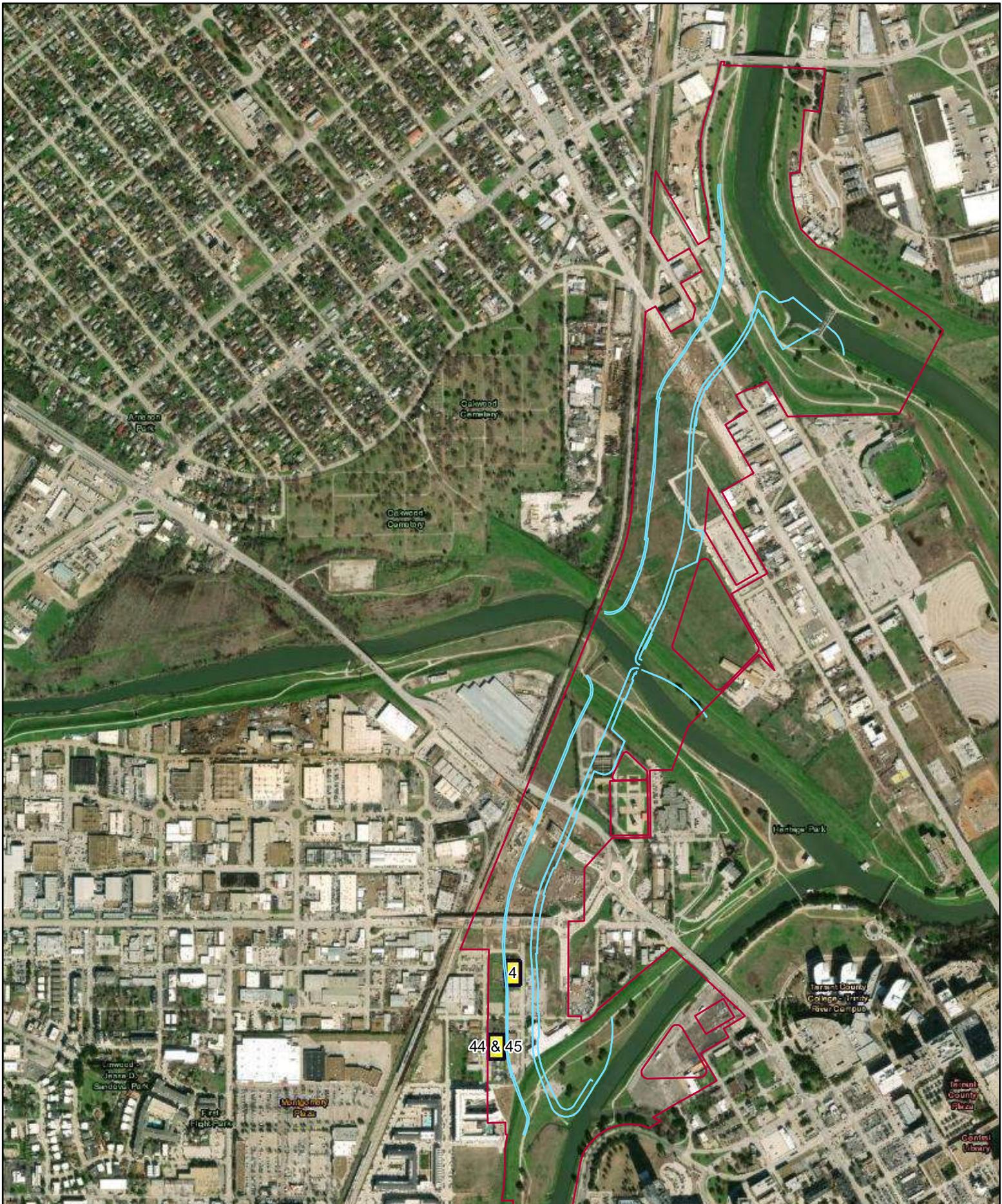
TRWD - TRV Budget 2021

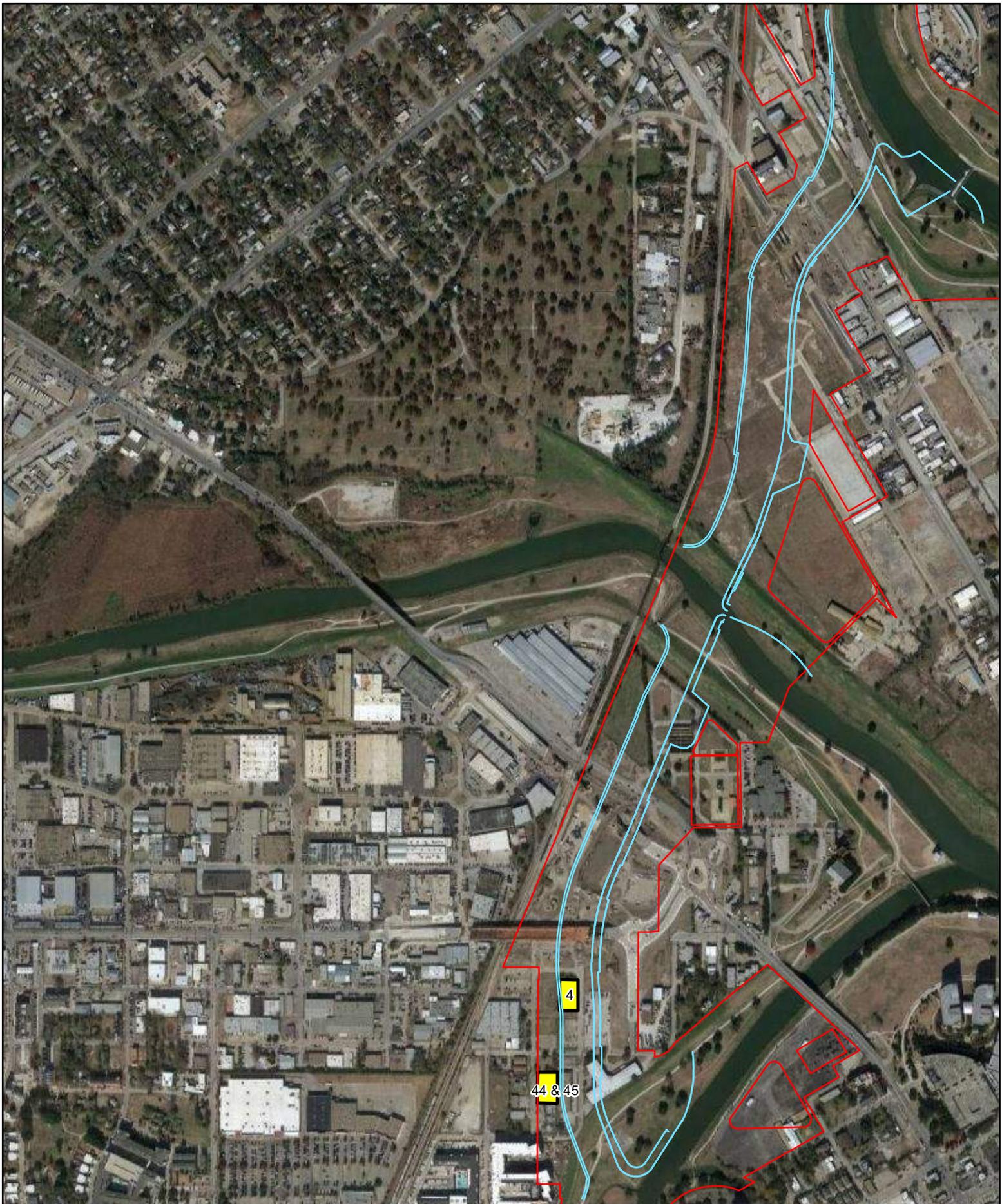
	Approved 2020 Budget	Projected Year End 2020	Proposed 2021 Budget
USACE - Central City Flood Control Project			
Land Acquisition	\$9,002,581	\$6,212,362	\$2,495,261
Flood Control Cash Match	\$0	\$0	\$0
Relocation	\$4,861,145	\$1,607	\$358,366
Demolition	\$3,672,804	\$0	\$3,989,423
Environmental	\$3,879,646	\$2,252,735	\$1,073,842
Program Management	\$1,462,512	\$2,043,717	\$2,175,471
Total USACE Project	\$22,878,688	\$10,510,421	\$10,092,363
Local Projects			
Marine Creek/Stockyards Connection	\$0	\$0	\$0
Bypass Local Share	\$0	\$0	\$2,948,713
Total Local Projects	\$0	\$0	\$2,948,713
Total TRV Budget 2021	\$22,878,688	\$10,510,421	\$13,041,076

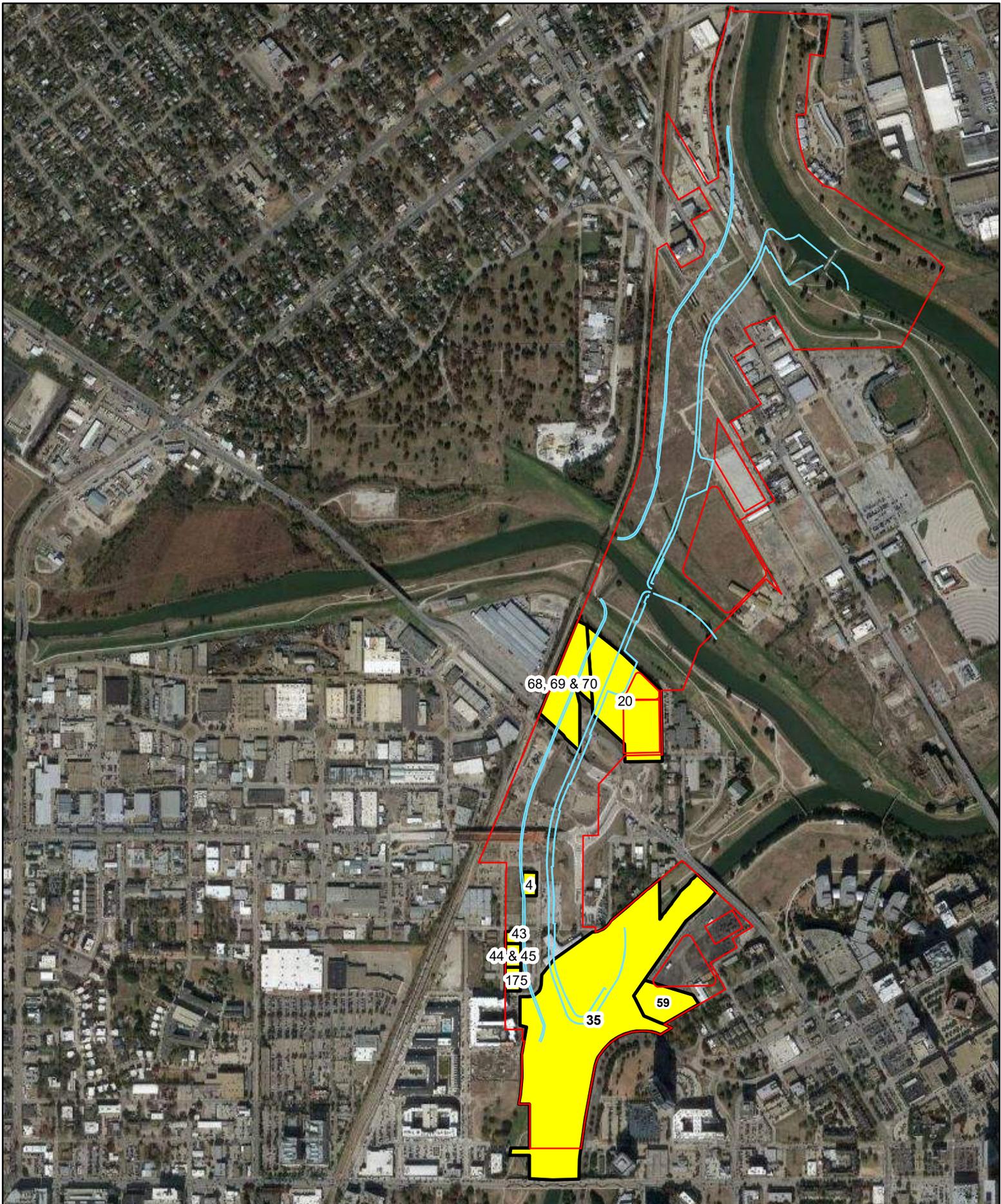
General Fund - Appendix - Panther Island/Central City Project

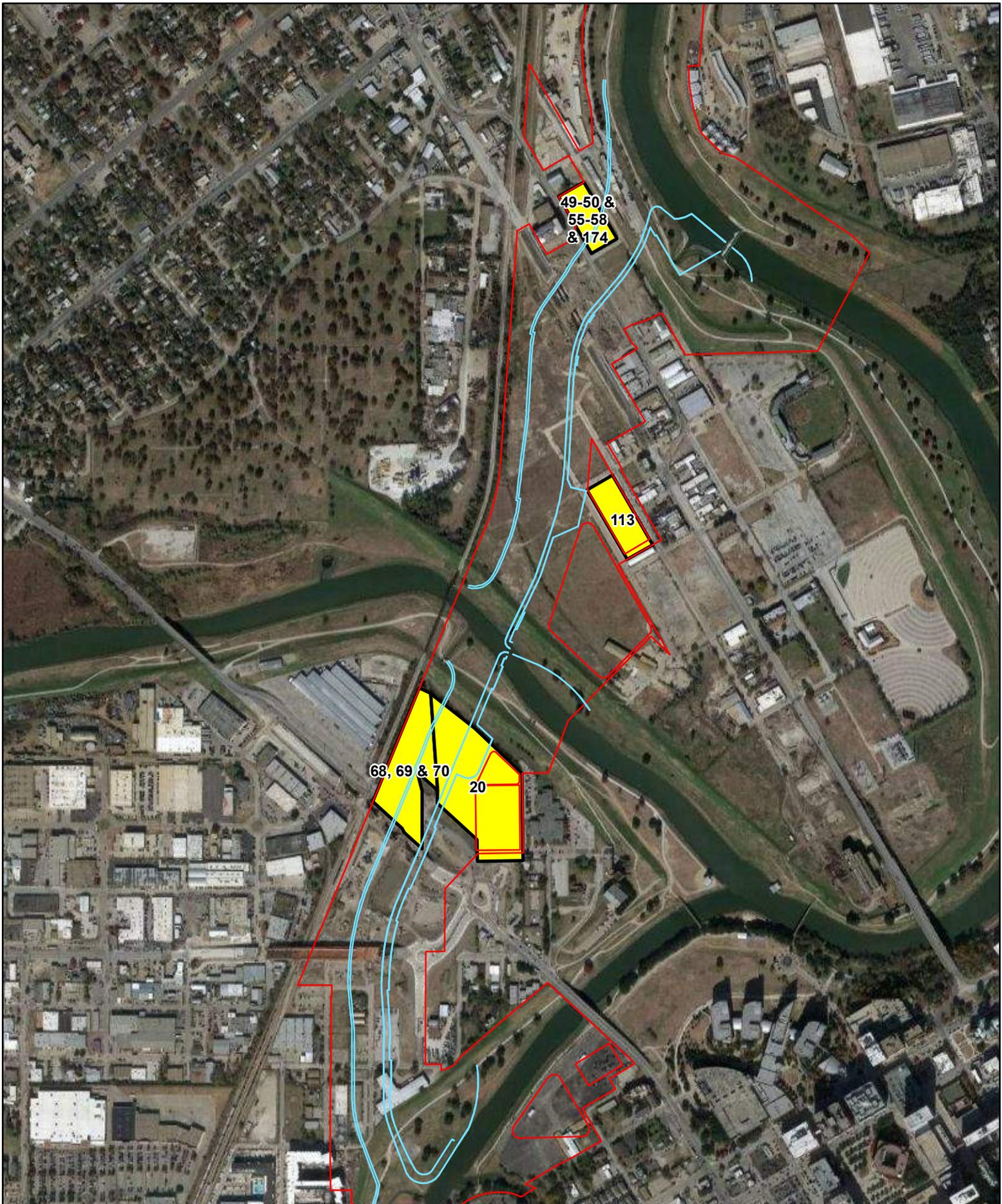
Plan B - Shovel Ready Plan - North and South Channel Design and Construction readiness								
	2021	2022	2023	2024	2025	2026	2027	Total
USACE - Central City Flood Control Project								
Land Acquisition	\$2,495,261	\$2,248,601	\$0	\$0	\$0	\$0	\$0	\$4,743,862
Flood Control Cash Match	\$0	\$0	\$6,043,288	\$8,690,000	\$4,520,000	\$0	\$0	\$19,253,288
Relocation	\$358,366	\$2,525,532	\$0	\$0	\$0	\$0	\$0	\$2,883,898
Demolition	\$3,989,423	\$1,040,385	\$453,069	\$0	\$2,582,577	\$0	\$0	\$8,065,454
Environmental	\$1,073,842	\$128,986	\$491,101	\$0	\$183,873	\$191,286	\$0	\$2,069,088
Program Coordination	\$2,175,471	\$1,945,180	\$1,945,180	\$1,937,368	\$1,078,120	\$613,008	\$0	\$9,694,327
Subtotal USACE - Central City Flood Control Project	\$10,092,363	\$7,888,685	\$8,932,638	\$10,627,368	\$8,364,570	\$804,293	\$0	\$46,709,917
Local Projects								
Bypass Local Share	\$2,948,713	\$0	\$6,662,344	\$1,163,235	\$6,950,977	\$1,064,432	\$0	\$18,789,701
Subtotal Local Projects	\$2,948,713	\$0	\$6,662,344	\$1,163,235	\$6,950,977	\$1,064,432	\$0	\$18,789,701
Contingency								
Local	\$0	\$0	\$272,266	\$5,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$35,272,266
Total Plan B - TRWD	\$13,041,076	\$7,888,685	\$15,867,248	\$16,790,603	\$25,315,547	\$11,868,725	\$10,000,000	\$100,771,884

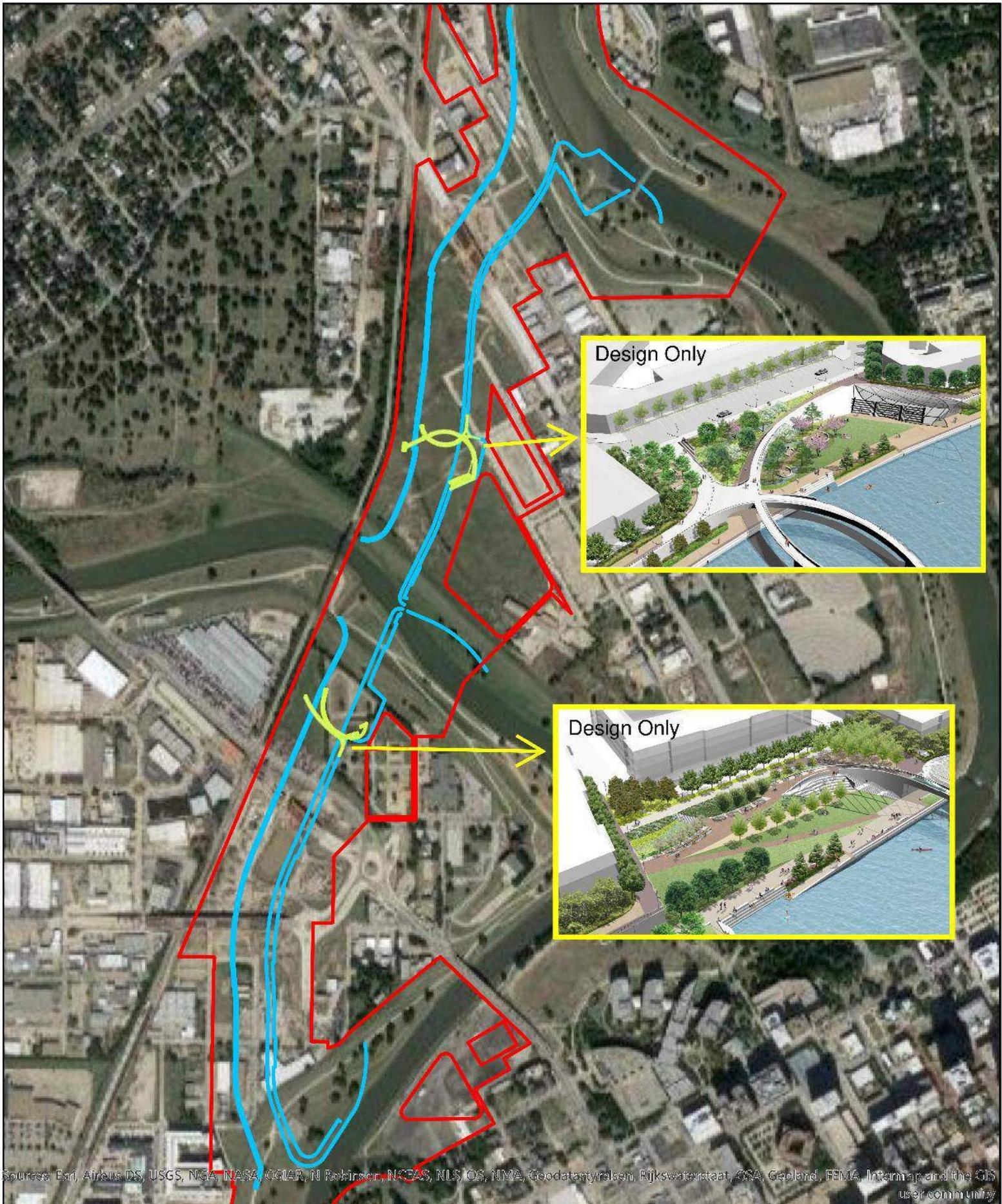
Plan A Minimum Federal Eligibility Plan - North Channel Design and Construction and South Design only readiness	
	2021
USACE - Central City Flood Control Project	
Land Acquisition	\$2,495,261
Flood Control Cash Match	\$0
Relocation	\$358,366
Demolition	\$2,511,212
Environmental	\$1,073,842
Program Coordination	\$2,175,471
Total Plan A - TRWD	\$8,614,152



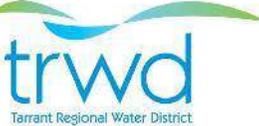








Sources: Esri, Aircois DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, CSA, Geoland, FEMA, Internmap and the GIS user community



FY21 Bypass Channel Local Share

Disclaimer: This data is an approximation based upon the best information available at the time of printing. Information contained on this map is intended for general planning level use only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and only represents approximate relative locations. The Tarrant Regional Water District is not liable for misuse of this information or derivative products resulting from this map.

MAP PRODUCED ON 5/21/2020



Recreation



Recreation FY21 Budget Summary

Enhance the quality of life in North Texas communities by creating recreational opportunities around TRWD infrastructure to enable active lifestyles.

Recreation Overview

Much of the infrastructure TRWD has built provides for excellent recreational opportunities for the public. For example, maintenance roads can double as trails for public use, and the recreation fund then provides additional recreation opportunities through trailheads that allow easier access to the trail system. The Recreation Fund budget provides the needed resources to maintain the recreation side of the infrastructure and produce events that drive communities to the river. Overall, the District has a \$3.5M recreation program for a net investment of \$1.2M.

Operating Revenues	FY20 Approved		FY21 Proposed		Variance	% Change
	FY19 Actuals	Budget	Budget	Budget		
Events & Programming	\$ 247,399	\$ 1,021,250	\$ 1,017,750	\$ (3,500)	-0.3%	
Infrastructure	\$ 1,375,405	\$ 1,010,000	\$ 1,339,210	\$ 329,210	32.6%	
Total Revenues	\$ 1,622,804	\$ 2,031,250	\$ 2,356,960	\$ 325,710	16.0%	
Operating Expenditures						
Events & Programming	\$ 561,018	\$ 1,446,000	\$ 1,410,300	\$ (35,700)	-2.5%	
Infrastructure	\$ 779,217	\$ 724,175	\$ 797,275	\$ 73,100	10.1%	
Admin Support	\$ 411,727	\$ 489,973	\$ 1,378,550	\$ 888,577	181.4%	
Total Expenditures	\$ 1,751,962	\$ 2,660,148	\$ 3,586,125	\$ 925,977	34.8%	
Use of Contingency Fund Revenues	\$ (129,158)	\$ (628,898)	\$ (1,229,165)	\$ (600,267)	95.4%	

Recreation Event and Programming Budget Summary

Revenues	FY19 Actuals	FY20 Approved	FY21 Proposed	Variance	% Change
		Budget	Budget		
Oktoberfest Fort Worth	\$ -	\$ 303,000	\$ 330,000	\$ 27,000	8.9%
Panther Island Ice Rink	\$ -	\$ 226,000	\$ 250,000	\$ 24,000	10.6%
Fort Worth Fourth	\$ 221,915	\$ 235,000	\$ 225,000	\$ (10,000)	-4.3%
Rockin' the River	\$ -	\$ 155,000	\$ 114,500	\$ (40,500)	-26.1%
Fort Wurst	\$ -	\$ 52,500	\$ 41,000	\$ (11,500)	-21.9%
Flyfest	\$ 11,954	\$ 14,000	\$ 17,000	\$ 3,000	21.4%
Sunday Funday	\$ -	\$ 13,000	\$ 12,000	\$ (1,000)	-7.7%
Adopt a River	\$ -	\$ -	\$ 10,000	\$ 10,000	100%
Fall Trash Bash	\$ 9,100	\$ 10,000	\$ 10,000	\$ -	0.0%
Spring Trash Bash	\$ 4,250	\$ 7,500	\$ 7,500	\$ -	0.0%
Adopt a Drain	\$ 180	\$ 750	\$ 750	\$ -	0.0%
Miscellaneous Events	\$ -	\$ 4,500	\$ -	\$ (4,500)	-100%
Total Revenues	\$ 247,399	\$ 1,021,250	\$ 1,017,750	\$ (3,500)	-0.3%
Expenditures					
Oktoberfest Fort Worth	\$ -	\$ 286,000	\$ 297,500	\$ 11,500	4.0%
Panther Island Ice Rink	\$ -	\$ 218,150	\$ 227,500	\$ 9,350	4.3%
Fort Worth Fourth	\$ 377,536	\$ 370,000	\$ 370,500	\$ 500	0.1%
Rockin' the River	\$ -	\$ 196,000	\$ 174,000	\$ (22,000)	-11.2%
Fort Wurst	\$ -	\$ 26,000	\$ 26,200	\$ 200	0.8%
Flyfest	\$ 35,894	\$ 55,000	\$ 55,000	\$ -	0.0%
Sunday Funday	\$ -	\$ 8,800	\$ 8,900	\$ 100	1.1%
Adopt a River	\$ -	\$ 20,000	\$ 20,000	\$ -	0.0%
Fall Trash Bash	\$ 35,508	\$ 91,000	\$ 63,500	\$ (27,500)	-30.2%
Spring Trash Bash	\$ 19,460	\$ 40,000	\$ 40,000	\$ -	0.0%
Adopt a Drain	\$ 552	\$ 4,000	\$ 3,000	\$ (1,000)	-25.0%
Trout Stockings	\$ 24,700	\$ 25,000	\$ 27,250	\$ 2,250	9.0%
Mayfest	\$ 20,749	\$ 20,500	\$ 17,500	\$ (3,000)	-14.6%
Marine Creek Health Fair	\$ 1,702	\$ 12,000	\$ 9,500	\$ (2,500)	-20.8%
Miscellaneous Events	\$ 5,805	\$ 12,100	\$ 5,600	\$ (6,500)	-53.7%
Program Support	\$ 39,112	\$ 61,450	\$ 64,350	\$ 2,900	4.7%
Total Expenditures	\$ 561,018	\$ 1,446,000	\$ 1,410,300	\$ (35,700)	-2.5%
Net Investment	\$ (313,619)	\$ (424,750)	\$ (392,550)	\$ 32,200	-7.6%

Recreation Infrastructure Budget Summary

Revenues	FY20 Approved		FY21 Proposed		Variance	% Change
	FY19 Actuals	Budget	Budget	Budget		
Woodshed Restaurant	\$ 191,061	\$ 211,000	\$ 211,000	\$ -	\$ -	0.0%
Coyote Drive-In Theatre	\$ 211,716	\$ 175,000	\$ 175,000	\$ -	\$ -	0.0%
Twin Points Park	\$ 445,981	\$ 340,000	\$ 445,000	\$ 105,000	\$ 105,000	30.9%
Panther Island Facilities	\$ 146,455	\$ 120,000	\$ 136,000	\$ 16,000	\$ 16,000	13.3%
Trinity Trail Permits	\$ 15,175	\$ 7,000	\$ 10,000	\$ 3,000	\$ 3,000	42.9%
Bridgeport & EM Leases	\$ 352,547	\$ 157,000	\$ 188,210	\$ 31,210	\$ 31,210	19.9%
Trailhead Construction	\$ 3,275	\$ -	\$ -	\$ -	\$ -	0.0%
Public Art & Signs	\$ 9,195	\$ -	\$ -	\$ -	\$ -	0.0%
LaGrave Stadium	\$ -	\$ -	\$ 174,000	\$ 174,000	\$ 174,000	100.0%
Total Revenues	\$ 1,375,405	\$ 1,010,000	\$ 1,339,210	\$ 329,210	\$ 329,210	32.6%
Expenditures						
Woodshed Restaurant	\$ 3,528	\$ 3,000	\$ 3,600	\$ 600	\$ 600	20.0%
Coyote Drive-In Theatre	\$ 65,209	\$ 63,800	\$ 82,100	\$ 18,300	\$ 18,300	28.7%
Twin Points Park	\$ 226,548	\$ 188,700	\$ 172,000	\$ (16,700)	\$ (16,700)	-8.9%
Panther Island Facilities	\$ 253,668	\$ 178,650	\$ 176,650	\$ (2,000)	\$ (2,000)	-1.1%
Trailhead Construction	\$ 10,373	\$ -	\$ -	\$ -	\$ -	0.0%
Public Art & Signs	\$ 41,748	\$ 50,000	\$ 50,000	\$ -	\$ -	0.0%
Eagle Mountain Park	\$ 43,989	\$ 64,325	\$ 65,225	\$ 900	\$ 900	1.4%
Trailhead maintenance	\$ 134,154	\$ 175,700	\$ 247,700	\$ 72,000	\$ 72,000	41.0%
Total Expenditures	\$ 779,217	\$ 724,175	\$ 797,275	\$ 73,100	\$ 73,100	10.1%
Net Revenues	\$ 596,188	\$ 285,825	\$ 541,935	\$ 256,110	\$ 256,110	89.6%



Twin Points Park is located at Eagle Mountain Lake and attracts an average of 60,000 visitors each year.

Recreation Support Services Overview

The Administrative Support Services budget consists of costs that support the District overall, including personnel and administrative costs. Starting in FY21, the Recreation fund will receive 100% of the personnel costs for employees who support recreational activities.

Expenditure	FY20 Approved		FY21 Proposed		Variance	% Change
	FY19 Actuals	Budget	Budget	Budget		
Personnel Services	\$ 314,454	\$ 416,947	\$ 1,203,402	\$ 786,455	188.6%	
Administrative Support Services	\$ 97,273	\$ 73,026	\$ 175,148	\$ 102,122	139.8%	
Total Expenditures	\$ 411,727	\$ 489,973	\$ 1,378,550	\$ 888,577	181.4%	
Net Investment	\$ (411,727)	\$ (489,973)	\$ (1,378,550)	\$ (888,577)	181.4%	



TRWD manages the 400-acre Eagle Mountain Park that features 6 miles of hiking trails

Contingency



Airfield Falls Trails

Contingency Fiscal Year 2021 Budget Summary

The Contingency Fund includes revenues from non-operating income, as well as expenses for the Recreation mission. Additional expenses could arise and would be approved by the Board at the start of a project. Additional details of the budget for non-operating income will be provided on the following pages.

Revenues	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Oil and Gas Revenues	\$ 10,000,000	\$ 6,000,000	\$ (4,000,000)	-40.0%
Interest Income Revenues	\$ 750,000	\$ 460,000	\$ (290,000)	-38.7%
Other Income Revenues	\$ 990,338	\$ 1,041,637	\$ 51,299	5.2%
Total Revenues	\$ 11,740,338	\$ 7,501,637	\$ (4,238,701)	-36.1%

Expenditures	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Recreation Fund Expenses	\$ 628,898	\$ 1,229,165	\$ 600,267	95.4%
Total Expenses	\$ 628,898	\$ 1,229,165	\$ 600,267	95.4%

Budgeted Net Increase to Equity	\$ 11,111,440	\$ 6,272,472	\$ (4,838,968)	-43.5%
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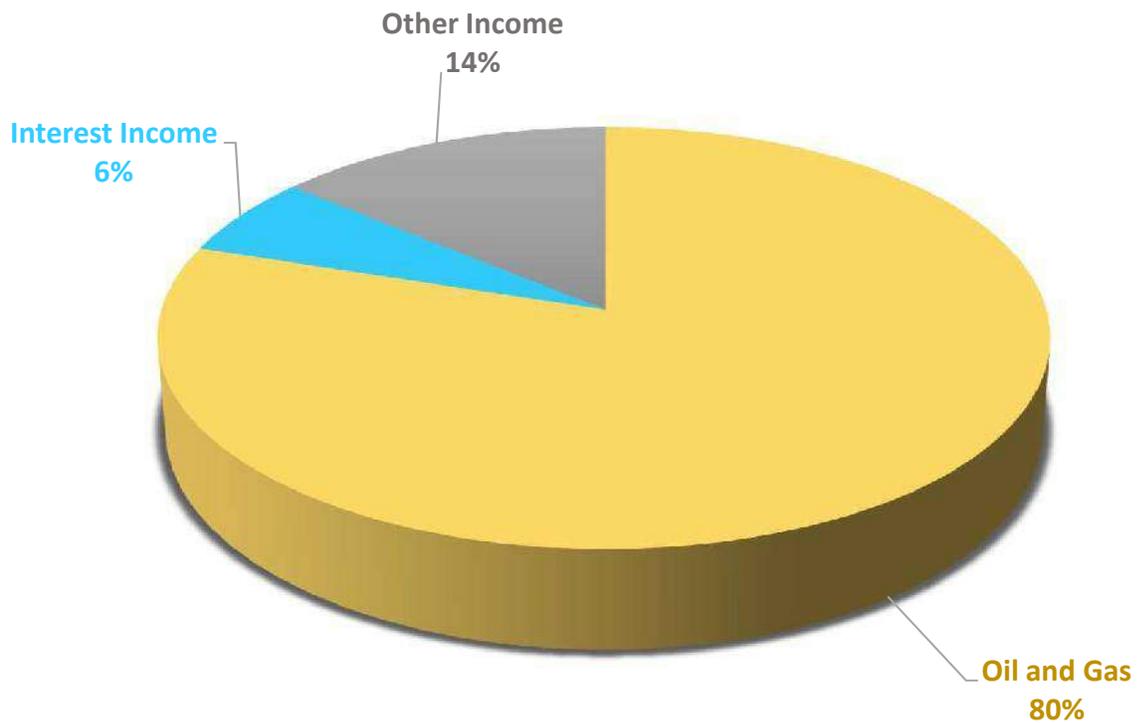
Pictured above is the Marine Creek Boardwalk built by the District in 2016 that connects the trail around Marine Creek Lake.

Contingency Revenues

Beginning October 1, 2019, the District desires to set aside future Oil and Gas revenues, interest income, and other revenues in a Contingency Fund.

	FY19 Actuals	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Oil and Gas	\$ 7,541,517	\$ 10,000,000	\$ 6,000,000	\$ (4,000,000)	-40.0%
Interest Income	\$ -	\$ 750,000	\$ 460,000	\$ (290,000)	-38.7%
Other Income	\$ 3,239,771	\$ 990,338	\$ 1,041,637	\$ 51,299	5.2%
Total Contingency Fund Revenues	\$ 10,781,288	\$ 11,740,338	\$ 7,501,637	\$ (4,238,701)	-36.1%

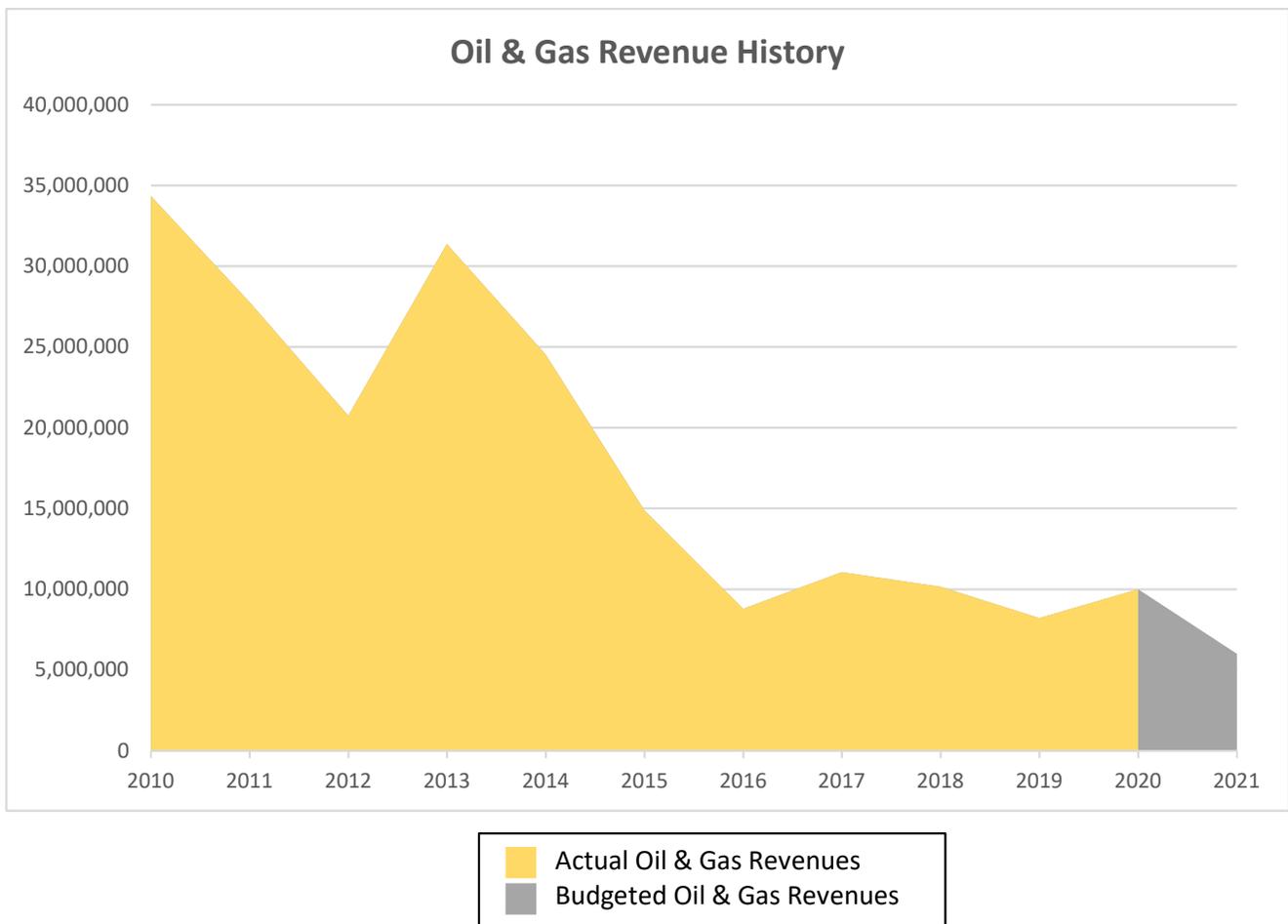
FY21 Proposed Budget



Contingency Revenues Oil and Gas Royalties

The majority of revenue from oil and gas royalties is generated from mineral interests located in Wise, Jack and Tarrant Counties under and surrounding Lake Bridgeport and Lake Eagle Mountain. Due to uncertainty of oil and gas production, revenues received during the year will be set aside as a contingency for future needs. FY21 is projected to see a decline in oil and gas revenues due to the current climate of the industry.

The chart below illustrates the actual revenues received from oil and gas royalties for the past 10 years with the budgeted revenues for FY20 and FY21. Prior to FY20 Oil and Gas revenues were in the General Fund, in FY20 they were moved to the Contingency Fund.



Contingency Revenues

Interest Income

Interest income is generated from the District's General Fund investment portfolio. The portfolio consists of U.S. government and agency fixed income securities as well as investments in Local Government Investment Pools and has an average maturity of two years. The income for Contingency Fund comes from non-operating revenues.

	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Interest Income	\$ 750,000	\$ 460,000	\$ (290,000)	-38.7%

Other Income

Other Income is budgeted more in FY21 compared to FY20 due to an increase in equipment and sand sales and floodway leases and permits. Surplus equipment sales are expected to increase due to the increase in aging fleet equipment going to auction in FY21. Other Income also consists of leases and permits along the Floodway, which is expecting an increase in FY21 due to new lease agreements.

Sources	FY20 Approved Budget	FY21 Proposed Budget	Variance	% Change
Annex East, West and Garage Lease	\$ 602,391	\$ 602,391	\$ -	0.0%
Miscellaneous Revenues	\$ 196,589	\$ 196,589	\$ -	0.0%
Floodway Leases & Permits	\$ 159,608	\$ 177,757	\$ 18,149	11.4%
Equipment & Sand Sales	\$ 31,750	\$ 64,900	\$ 33,150	104.4%
Total	\$ 990,338	\$ 1,041,637	\$ 51,299	5.2%