

This Agenda is posted pursuant to Chapter 551, Texas Government Code

**Matters to Come Before a Meeting of the Board of Directors
of Tarrant Regional Water District**

**To Be Held the 20th Day of September 2022 at 9:00 a.m.
Front Doors to the Main Admin Building at 800 East Northside Drive Will Open to
the Public at 8:30am and Close Fifteen (15) Minutes After the Meeting Adjourns**

**TRWD Board Room
800 East Northside Drive
Fort Worth, Texas 76102**

**PLEASE BE ADVISED THAT A QUORUM OF THE BOARD OF DIRECTORS OF TRWD
WILL CONVENE ON THE ABOVE DATE AND TIME FOR THE PURPOSE OF
CONSIDERING AND ACTING UPON THE MATTERS SET FORTH IN THIS AGENDA.
THE LINK TO VIEW AND LISTEN TO THE MEETING VIA INTERNET IS
<HTTPS://WWW.TRWD.COM/BOARDVIDEOS>. A RECORDING OF THE MEETING
WILL ALSO BE AVAILABLE AT <HTTPS://WWW.TRWD.COM/BOARDVIDEOS>.**

- 1. Pledges of Allegiance**
- 2. Public Comment**

Citizens may present public comment at this time, limited to a total time of three (3) minutes per speaker, unless the speaker addresses the Board through a translator, in which case the limit is a total time of six (6) minutes. If citizens wish to address the Board in person, each proposed speaker must have completed and submitted a speaker card prior to the commencement of the meeting, identifying any agenda item number(s) and topic(s) the speaker wishes to address with the Board. If citizens wish to address the Board virtually, each proposed speaker must have contacted Mr. Chad Lorange of TRWD - by telephone at (817) 720-4367 or by email at chad.lorange@trwd.com - by no later than 3:00 p.m. on Monday, September 19, 2022, identifying any agenda item number(s) and topic(s) the speaker wishes to address with the Board. In such event, the speaker will be provided with a dial-in number to address the Board. By law, the Board may not deliberate, debate, or take action on public comment but may place the item on a future agenda.

- 3. Consider Approval of the Minutes from the Meeting Held on August 16, 2022**
- 4. Consider Approval of Consent Agenda**
All items listed on the consent agenda are considered to be regular, routine, and ministerial items that require little or no discussion. Therefore, in the

interest of efficiency there will be no separate discussion of these items and the board will act on them through one motion and vote. If a board member wishes for an item to be discussed and considered individually, upon the board member's request the item will be removed from the consent agenda and considered separately.

- 5. Consider Approval of Fiscal Year 2023 General Fund Budget - Sandy Newby, Chief Financial Officer**
- 6. Consider Approval of Fiscal Year 2023 Revenue Fund Budget - Sandy Newby, Chief Financial Officer**
- 7. Consider Approval of Fiscal Year 2023 Special Projects/Contingency Fund Budget - Sandy Newby, Chief Financial Officer**
- 8. Vote to Adopt a Tax Rate of \$.0269/\$100 for Tax Year 2022 - Sandy Newby, Chief Financial Officer**
- 9. Consider Approval of Contract with Hydros Consulting for Technical Support - Zachary Huff, Water Resources Engineering Director**
- 10. Consider Approval of Contract with Freese and Nichols, Inc. for Upstream Flood Mitigation Analysis - Zachary Huff, Water Resources Engineering Director**
- 11. Consider Approval of a Joint Funding Agreement with U.S. Geological Survey for Gage Network Support Services - Zachary Huff, Water Resources Engineering Director**
- 12. Consider Approval of Discretionary Services Agreement with Oncor Electric Delivery Company LLC for Initial Routing and Design of Electrical Transmission Main to IPL Project Lake Palestine Pump Station - Zachary Huff, Water Resources Engineering Director**
- 13. Consider Approval of Contract with The National Theatre for Children, Inc., for Elementary School Water Conservation Education Services - Linda Christie, Government Affairs Director**
- 14. Consider Approval of Contract with Tinker LLC for Elementary School Water Conservation Education Services - Linda Christie, Government Affairs Director**
- 15. Consider Approval of Contract with HNTB Corporation for Completion of Pedestrian Bridge Design for the Central City Flood Control Project - Woody Frossard, Program Director, Panther Island/Central City Flood Control Project**

16. Staff Updates

- **General Manager Update - Dan Buhman, General Manager**
- **Water Resources Update - Rachel Ickert, Chief Water Resources Officer**

17. Executive Session under Texas Government Code:

Section 551.071 to Consult with Legal Counsel on a Matter in Which the Duty of Counsel Under the Texas Disciplinary Rules of Professional Conduct Clearly Conflicts with Chapter 551, Texas Government Code; and

Section 551.072 to Deliberate the Purchase, Exchange, Lease or Value of Real Property; and

Section 551.074 Regarding Personnel Matters

- 18. Consider Approval of Authorization to Exchange Land Located in the J. G. W. Clayton Survey, Abstract No. 150, Wise County, Texas and the C. B. Mixon Survey, Abstract No. 536, Wise County, Texas - Steve Christian, Real Property Director**
- 19. Consider Approval of Acceptance of Conveyance of Approximately 1.08 acres of land located adjacent to Shelby at Northside Apartments and being a portion of Lot 1, Block 1, Riverfront Lofts Addition to the City of Fort Worth, Tarrant County, Texas - Steve Christian, Real Property Director**
- 20. Future Agenda Items**
- 21. Schedule Next Board Meeting**
- 22. Adjourn**

MINUTES OF A MEETING OF THE BOARD OF DIRECTORS OF
TARRANT REGIONAL WATER DISTRICT
HELD ON THE 16th DAY OF AUGUST 2022 AT 9:00 A.M.

The call of the roll disclosed the presence of the Directors as follows:

Present
Leah King
James Hill
Jim Lane
Mary Kelleher

Absent
Marty Leonard

Also present were Dan Buhman, Darrell Beason, Frank Beaty, Linda Christie, Ellie Garcia, Jason Gehrig, Natasha Hill, Zachary Huff, Rachel Ickert, Chad Lorange, Mick Maguire, Sandy Newby, Rick Odom, Stephen Tatum, and Ed Weaver of the Tarrant Regional Water District (District or TRWD).

President King convened the meeting with assurance from management that all requirements of the Texas Open Meetings Act had been met.

1.

All present were given the opportunity to join in reciting the Pledges of Allegiance to the U.S. and Texas flags.

2.

Public comment was received from Thomas Torlincasi, who spoke regarding general public comments. Public comment was received from Doreen Geiger who spoke regarding the tax rate.

3.

On a motion made by Director Lane and seconded by Director Hill, the Directors

voted to approve the minutes from the Board meetings held on June 21, 2022, July 19, 2022 and July 26, 2022. It was accordingly ordered that these minutes be placed in the permanent files of the District.

4.

With the recommendation of management, Director Hill moved to place a proposal to adopt a tax year 2022 tax rate of \$.0269/\$100 on the agenda for the September 20, 2022 Board of Directors Meeting. The vote also established the date for a public hearing to be held September 19, 2022 at 2:00 p.m. on the proposed tax year 2022 tax rate of \$.0269/\$100. Director Kelleher seconded the motion and the vote in favor was unanimous.

5.

With the recommendation of management, Director Hill moved to approve a resolution approving a financing agreement with Texas Water Development Board for State Water Implementation Revenue Fund for Texas and authorizing the General Manager or Chief Financial Officer to execute the financing agreement for and on behalf of the District. Director Lane seconded the motion and the vote in favor was unanimous.

6.

With the recommendation of management, Director Hill moved to approve a resolution extending Tax Increment Financing Zone (TIF) No. 9 and 9A which extends the TIF to December 31, 2054 (an additional 10 years), to continue the contribution at eighty percent (80%) of the District's tax increment from property within the TIF District boundaries, and to approve the Amended TIF Project and Financing Plan approved by the TIF Board on August 3, 2022, contingent on other partners accepting the TIF extension. Director Lane seconded the motion and the vote in favor was unanimous.

7.

With the recommendation of management, Director Lane moved to approve two change orders, release of retainage, final payment, and project closeout in the total amount of \$107,334.25 with Bauer Foundation Corporation for the Eagle Mountain Dam Side Channel Spillway Seepage Remediation project. Funding for this item is included in the Bond Fund. Director Kelleher seconded the motion and the vote in favor was unanimous.

8.

With the recommendation of management, Director Kelleher moved to approve an Interlocal Agreement in an amount not-to-exceed \$400,000 between Tarrant Regional Water District, North Texas Municipal Water District, and City of Dallas. The Interlocal Agreement will be used to fund a study of the potential to optimize raw water supplies and increase reliability of the water supply systems in the region through interconnections or other water sharing mechanisms among the three water suppliers. Funding for this item is included in the Fiscal Year 2022 Revenue Fund Budget. Director Hill seconded the motion and the vote in favor was unanimous.

9.

With the recommendation of management, Director Kelleher moved to approve release of retainage, final payment in the amount of \$1,212,500, and contract closeout with IPL Partners for Section 17 Trinity River Tunnel of the Integrated Pipeline Project. The original contract price was \$33,092,000, and with approved change orders to date totaling \$15,408,000, the final contract value is \$48,500,000. Funding for this item is included in the Bond Fund. Director Hill seconded the motion and the vote in favor was unanimous.

10.

With the recommendation of management, Director Lane moved to approve a change order in the amount of \$62,268 with Traylor Sundt Joint Venture for relocating a City of Trinidad Water Treatment Plant water line and backfilling of a stock tank located in the open-cut portion of the Integrated Pipeline right-of-way for IPL Section 19 Long Tunnel Crossings, which is funded 100 percent by City of Dallas. The current contract amount was \$221,548,129, and the revised not-to-exceed contract amount, including this change order, is \$221,610,397. Funding for this item is included in the Dallas Bond Fund. Director Kelleher seconded the motion and the vote in favor was unanimous.

11.

With the recommendation of management, Director Kelleher moved to approve operations maintenance expenditures as outlined on the attached spreadsheet. Funding for these items is included in the Fiscal Years 2022 and 2023 Revenue Fund. Director Lane seconded the motion and the vote in favor was unanimous.

**Tarrant Regional Water District
Board of Directors Meeting
August 2022
Operations Maintenance**

Project	Vendor	Amount	Purpose	Budget Line	Budget	
ITB 22-158 Brenttag Southwest, Inc- Liquid chlorine For Richland Chambers Lake	Brenttag Southwest, Inc	\$2,390/ton	Chlorine is used for the control of Zebra Mussels and at times Biofilm. Contract Term: Contract shall be for an initial period of thirteen (13) months with the option to renew for up to three (3) additional one (1) year periods.	2537	FY22/FY23 Revenue	\$150,000
ITB 22-158 DPC Industries - Sodium Hydroxide for Richland Chambers Lake Pump Station, Cedar Creek Lake Pump Station, and Joint Cedar Creek Pump Station	DPC Industries	\$985.54/ton	This product is used for PH control in the pipelines. Contract Term: Contract shall be for an initial period of thirteen (13) months with the option to renew for up to three (3) additional one (1) year periods.	2534, 10423, 11792	FY22/FY23 Revenue	\$550,000
ITB 22-158 Southern Ionics - Aqua Ammonia for Richland Chambers Pump Station	Southern Ionics	\$1954.65/ton	This product is used for formation of Monochloramines. Contract Term: Contract shall be for an initial period of thirteen (13) months with the option to renew for up to three (3) additional one (1) year periods.	2538	FY22/FY23 Revenue	\$50,000
ITB 22-157 - 1" Rock for 2023 Pipe Replacement	Green Dream International	\$64,022	The rock is to be used in Section III on the Cedar Creek Pipeline as embedment for the 17 segments scheduled to be replaced during the fiscal year 2023 pipe replacement.	12006	FY22 Revenue	\$60,000
ITB 22-157 - Pea Gravel for 2023 Pipe Replacement	Tellus Consulting, LLC	\$23,800	The pea gravel is to be used in Section III on the Cedar Creek Pipeline as embedment for the 17 segments scheduled to be replaced during the fiscal year 2023 pipe replacement.	12006	FY22 Revenue	\$60,000

12.

With the recommendation of management, Director Hill moved to approve a competitively procured and reviewed list of law firms to provide external legal counsel to the District in order to be in accordance with Section 10.5 of the TRWD Board Governance Policy. Director Kelleher seconded the motion and the vote in favor was unanimous.

13.

With the recommendation of management to appoint two Directors to the Board of Directors of the Trinity River Vision Authority, Director Hill moved to reappoint G.K. Maenius and David Cooke as Directors on the Board of Directors of the Trinity River Vision Authority. Director Lane seconded the motion and the vote in favor was unanimous.

14.

Staff Updates

- Quarterly Financial Update
- Water Resources Update

The Board of Directors recessed for a break from 10:09 a.m. to 10:12 a.m.

15.

The Board next held an Executive Session commencing at 10:13 a.m. under Section 551.071 to Consult with Legal Counsel on a Matter in Which the Duty of Counsel Under the Texas Disciplinary Rules of Professional Conduct Clearly Conflicts with Chapter 551, Texas Government Code, and to Discuss Pending or Contemplated Litigation.

Upon completion of the executive session at 11:07 a.m., the President reopened

the meeting.

16.

There were no future agenda items approved.

17.

The next board meetings were scheduled for September 19, 2022 at 2:00 p.m. and September 20, 2022 at 9:00 a.m.

18.

There being no further business before the Board of Directors, the meeting was adjourned.

President

Secretary

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 4

DATE: September 20, 2022

SUBJECT: Consider Approval of Consent Agenda

FUNDING: Fiscal Year 2023 General, Revenue and Recreation Funds

RECOMMENDATION:

Management recommends approval of the Consent Agenda.

DISCUSSION:

The following items are on the Consent Agenda and are described in more detail in the attached spreadsheets:

Consider Approval of Capital Expenditures and Disposal of Surplus Equipment

(1) Caldwell Chevrolet

- Eleven (11) new fleet vehicles
- Total expenditure amount: \$612,685

(2) Kinloch Equipment & Supply, Inc.

- One (1) commercial remote control slope mower
- Total expenditure amount: \$65,908.01

(3) United AG & Turf

- One (1) tractor
- Total expenditure amount: \$122,407.53

(4) RDO Equipment Company

- One (1) Heavy Duty LGP Dozer
- Total expenditure amount: \$486,196.75

(5) Kirby-Smith Machinery Inc

- One (1) Heavy Duty Motor Grader
- Total expenditure amount: \$274,880

(6) Loftin Equipment Company, Inc.

- One (1) stand-by generator
- Total expenditure amount: \$53,084

(7) Hoffpauir Outdoor Superstore

- Two (2) all terrain side by side 6WD Utility Vehicles
- Total expenditure amount: \$52,597.16

Consider Approval of Contract Renewals for Fiscal Year 2023

(8) Longhorn Termite & Pest Control for District facilities (East, Central, and West)

- Annual Contract Amount: \$46,210
- Total Potential Spend: \$211,752.50

(9) Christian Brothers Automotive for preventative maintenance, state inspections, oil changes, tire rotations, etc.

- Annual Contract Amount: \$35,000
- Total Potential Spend: \$175,000

(10) Landtec Services for landscape maintenance services for Airfield Falls Trailhead and Conservation Park.

- Annual Contract Amount: \$44,000
- Total Potential Spend: \$220,000

(11) Lawn Patrol Service, Inc. for grounds maintenance at Central Facilities.

- Annual Contract Amount: \$54,705
- Total Potential Spend: \$273,525

Consider Approval of Operations Maintenance Expenditures

(12) Whitmore and Sons

- Grounds maintenance for District facilities at Eagle Mountain Park, Twin Points Park, and Fort Worth Floodway Trailheads (10)
 - i. expenditure amount: \$88,027.50
- Grounds maintenance for District facilities at the following locations: Law Enforcement Office/Compound and Fort Worth Operations Office/Compound.
 - i. expenditure amount: \$22,584.50
- Grounds maintenance for District facilities at the following locations: Eagle Mountain Office, Eagle Mountain Dam, Eagle Mountain Spillway, Eagle Mountain Outlet, R26 Residence, Eagle Mountain Balancing Reservoir Electrical Building, Clear Fork Outlet, Eagle Mountain Connection Microwave Tower, Arlington Outlet, Benbrook BB2, Rolling Hills Pump Station RH2.
 - i. expenditure amount: \$31,072.50
- Total expenditure amount: \$141,684.50

(13) Southern Botanical

- Vegetation maintenance and the maintenance of stormwater demonstration landscaping at the Fort Worth Administrative Offices/Campus
- Total expenditure amount: \$71,469.44

This item was reviewed by the Construction and Operations Committee on September 16, 2022.

**Tarrant Regional Water District
Board of Directors Meeting
September 2022
Capital Expenditures**

Project	Vendor	Amount	Purpose	Budget	
				Source	Amount
1 ITB No. 23-000 3/4 Ton 4wd Utility Van - Unit 2-423	Caldwell Country Chevrolet	\$45,950.00	New unit will replace unit 2-278 2010 Ford 1/2 Ton E150 Van with approximately 166,000 miles. New unit will be assigned to HVAC Technician. Unit 2-278 will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.		
Total for Unit 2-423		\$45,950.00		General	\$44,000.00
2 ITB No. 23-000 1 Ton 4wd Cab & Chassis W/Utility Bed - Unit 2-424	Caldwell Country Chevrolet	\$66,130.00	New unit will replace unit 2-328 2014 Ford 1 Ton 4wd Ext Cab Utility Truck with approximately 110,000 miles. New unit will be assigned to Operations & Maintenance Technician. Upon receipt of new unit, unit 2-328 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.		
Total for Unit 2-424		\$66,130.00		Revenue	\$61,000.00
3 ITB No. 23-000 1 Ton 4wd Cab & Chassis W/Utility Bed - Unit 2-426	Caldwell Country Chevrolet	\$66,130.00	New unit will replace unit 2-239 2007 Chevrolet 3/4 Ton 4wd Reg Cab Utility Truck with approximately 150,500 miles. New unit will be assigned to Fleet. Upon receipt of new unit, unit 2-239 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.		
Total for Unit 2-426		\$66,130.00		General	\$67,000.00
4 ITB No. 23-000 3/4 Ton 4wd Cab & Chassis W/Utility Bed - Unit 2-428	Caldwell Country Chevrolet	\$63,190.00	New unit will be an addition to the Fleet and assigned to Instrumentation & Electrical Group. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.		
Total for Unit 2-428		\$63,190.00		Revenue	\$55,000.00

5 ITB No. 23-000 3/4 Ton 4wd Cab & Chassis W/Utility Bed - Unit 2-430	Caldwell Country Chevrolet	\$63,190.00	New unit will replace unit 2-336 2015 Ford 3/4 Ton 2wd Ext Cab Utility Truck with approximately 121,000 miles. New unit will be assigned to Instrumentation & Electrical Group. Upon receipt of new unit, unit 2-336 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.
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Total for Unit 2-430 Revenue **\$55,000.00**

6 ITB No. 23-000 3/4 Ton 4wd Cab & Chassis W/Utility Bed - Unit 2-438	Caldwell Country Chevrolet	\$63,190.00	New unit will replace unit 2-303 2012 Ford 1 Ton 2wd Ext Cab Utility Truck with approximately 101,000 miles. New unit will be assigned to Instrumentation & Electrical Group. Upon receipt of new unit, unit 2-303 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.
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Total for Unit 2-438 Revenue **\$55,000.00**

7 ITB No. 23-000 3/4 Ton 4wd Cab & Chassis W/Utility Bed - Unit 2-442	Caldwell Country Chevrolet	\$63,190.00	New unit will replace unit 2-295 2011 Ford 3/4 Ton 2wd Ext Cab Utility Truck with approximately 82,000 miles. New unit will be assigned to Instrumentation & Electrical Group. Upon receipt of new unit, unit 2-295 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.
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Total for Unit 2-442 Revenue **\$55,000.00**

8 ITB No. 23-000 1/2 Ton 4wd Crew Cab SWB Pickup - Unit 2-434	Caldwell Country Chevrolet	\$47,235.00	New unit will replace unit 2-372 2017 Chevrolet 1/2 Ton 4wd Crew Cab Pickup. Unit 2-372 was involved in an accident and due to cost of repairs Fleet recommends replacement. The cost of repair is 77% of the current value and 57% of the replacement cost. New unit will be assigned to Facilities Maintenance Supervisor. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.
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Total for Unit 2-434 Revenue **\$38,000.00**

9 ITB No. 23-000 1/2 Ton 4wd Crew Cab SWB Pickup - Unit 2-441	Caldwell Country Chevrolet	\$47,235.00	New unit will replace unit 2-299 2011 Chevrolet 1/2 Ton 4wd Crew Cab Pickup with approximately 105,000 miles. New unit will be assigned to Land Row Manager. Upon receipt of new unit, unit 2-299 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791 025		
Total for Unit 2-441		\$47,235.00		General	\$42,000.00
10 ITB No. 23-000 Mid Size SUV - Unit 2-440	Caldwell Country Chevrolet	\$36,275.00	New unit will replace unit 2-326 2014 Dodge 4 door Journey SUV. Unit 2-326 was totaled in an accident. New unit will be assigned to Administration Pool. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.		
Total for Unit 2-440		\$36,275.00		General	\$38,000.00
11 ITB No. 23-000 Full Size SUV 4wd - Unit 2-439	Caldwell Country Chevrolet	\$50,970.00	New unit will replace unit 2-315 2013 Chevrolet 3/4 Ton 4wd Crew Cab Pickup with approximately 102,000 miles. New unit will be assigned to Reservoir Director. Upon receipt of new unit, unit 2-315 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #601-19 in accordance with Government Code 791.025.		
Total for Unit 2-439		\$50,970.00		General	\$55,000.00
12 ITB No. 23-000 Commercial Remote Control Slope Mower - Unit 6-189	Kinloch Equipment & Supply, Inc.	\$65,908.01	New unit will be an addition to the Fleet and assigned to Floodway Operations. A remote controlled mower will allow our employees to guide the unit from a safe distance, eliminating the risk of roll over, reduce the cost of labor cost and challenge of weedeating steep slopes. The unit will increase productivity on difficult terrain with the climbing ability of 55%. The purchase will be made utilizing the Interlocal Cooperative, BuyBoard Contract #611-20- in accordance with Government Code 791 025		
Total for Unit 6-189		\$65,908.01		General	\$64,000.00

13 ITB No. 23-000 Tractor 140 Hp W/Cab - Unit 6-187	United AG & Turf	\$122,407.53	New unit will replace 6-132 2006 Case MXM155 4wd Tractor with approximately 5764 hours. New unit will be assigned to Operations. Upon receipt of the new unit, unit 6-132 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing the Interlocal Cooperative, HGACBuy Contract GR01-20 in accordance with Government Code 791.025.		
Total for Unit 6-187		\$122,407.53		Revenue	\$108,100.00
14 ITB No. 23-000 Heavy Duty LGP Dozer W/Winch - Unit 8-80	RDO Equipment Company	\$486,196.75	New unit will replace 8-65 2005 Komatsu D65 PX-15 LGP Dozer with approximately 6900 hours. New unit will be assigned to the Operations Resource Calendar. Unit 8-65 will be sold at auction. The purchase will be made utilizing the Sourcewell Contract #032119-JDC in accordance with Government Code 791.025.		
Total for Unit 8-80		\$486,196.75		General	\$450,000.00
15 ITB No. 23-000 Heavy Duty Motor Grader - Unit 8-61	Kirby-Smith Machinery Inc.	\$274,880.00	New unit will replace 8-61 2002 John Deere 770 CHII Motor Grader with approximately 6300 hours. New unit will be assigned to the Operations Resource Calendar. Unit 8-61 will be sold at auction. The purchase will be made utilizing the Sourcewell Contract #032119-KOM in accordance with Government Code 791.025.		
Total for Unit 8-81		\$274,880.00		General	\$275,000.00
16 ITB No. 23-000 150KW Stand-by Generator - Unit 12-218	Loftin Equipment Company, Inc.	\$53,084.00	New unit will replace 12-18 1990 Cummins 40KW Stand-by Generator and will provide emergency power for EM Spillway Structures. Unit 12-18 is now 32 years old and parts are becoming obsolete. The purchase will be made utilizing the Interlocal Cooperative, HGACBuy Contract GE02-20 in accordance with Government Code 791.025.		
Total for Unit 12-218		\$53,084.00		Revenue	\$65,000.00
17 ITB No. 22-156 All Terrain Side by Side 6WD Utility Vehicle - Unit 12- 222	Hoffpauir Outdoor Superstore		New unit will be an addition to the Fleet and assigned Ft. Worth Operations for Floodway & Recreation Support. The purchase will be made utilizing competitive sealed proposals in accordance with Government Code 252.021.		
Total for Unit 12-222		\$26,298.58		General	\$25,000.00

18 ITB No. 22-156 All Terrain Side by Side 6WD Utility Vehicle - Unit 12-223

Hoffpauir Outdoor Superstore

New unit will replace 12-147 2011 John Deere XUV855D Utility Vehicle with approximately 1900 hours and overall condition poor. New unit will be assigned to Pipeline Operations for Cathodic & Pipeline Support. Upon receipt of the new unit, unit 12-147 will be evaluated against the vehicle pool and the appropriate unit will be sold at auction. The purchase will be made utilizing competitive sealed proposals in accordance with Government Code 252.021.

Total for Unit 12-223

\$26,298.58

Revenue **\$22,800.00**

General Actuals

\$1,099,843.34

General Budget

\$1,060,000.00

Revenue Actuals

\$567,915.11

Revenue Budget

\$514,900.00

Capital Equipment Actual Total

\$1,667,758.45

Capital Equipment Budget Total

\$1,574,900.00

VENDOR TOTALS

Grand Total for Caldwell Cheverolet

\$612,685.00

Grand Total for Kirby Smith

\$274,880.00

Grand Total for RDO Equipment Co.

\$486,196.75

Grand Total for Loftin Equipment Company, Inc.

\$53,084.00

Grand Total for United AG & Turf

\$122,407.53

Grand Total for Kinloch Equipment & Supply, Inc.

\$65,908.01

Grand Total for Hoffpauir Outdoor Store

\$52,597.16

Capital Equipment Total

\$1,667,758.45

**Tarrant Regional Water District
Surplus Equipment Disposal**

Item	Fund	Disposal Explanation
1 Surplus Lawn Mowers	General	Three Self Propelled 22 inch Push Mowers
2 Surplus Tractor Tires	General	Goodyear 16.9-30 John Deere Wheel & Tire, Goodyear 13.6-24 Case Wheel & Tire, Firestone 13.6-24 Case Wheel & Tire, Firestone 18.4-R38 Case Wheel & Tire
3 Welder	General	Miller Syncrowave 180 SD Welder, S/N LF067568
4 Truck Crane	Revenue	Liftmoore 2700 Truck Mount Crane, S/N M645W40
5 Surplus Excavator Buckets	Revenue	1 - Hensley 1.25 yd. Bucket, Misc. Bucket
6 Surplus Truck Parts	General	8 Crossover Toolboxes, 2 Headache Racks, 3 GM Rear Bumpers, 1 Utility Ladder Rack

**Tarrant Regional Water District
Board of Directors Meeting
September 2022
Contract Renewals**

Project	Vendor	Annual Amount	Total Potential Spend	Purpose	Budget	
					Source	Amount
1 ITB 22-045-1 Pest Control - Facilities (East, Central and West)	Longhorn Termite & Pest Control	\$46,210.00	\$211,752.50	Pest control for District facilities (East, Central, and West). Original contract term was for seven months with up to four annual renewal options. FY 2023 is the first annual renewal option.	General	\$10,900.00
					Revenue Recreation	\$33,810.00 \$1,500.00
					Total	\$46,210.00

Project	Vendor	Annual Amount	Total Potential Spend	Purpose	Budget	
					Source	Amount
2 ITB 22-035 Fleet PM Service Contract	Christian Brothers Automotive	\$35,000.00	\$175,000.00	Contract includes preventative maintenance, state inspections, oil changes, tire rotations etc. Original contract term was for one year with up to four annual renewal options. FY 2023 is the first annual renewal option.	General	\$24,000.00
					Revenue	\$11,000.00
					Total	\$35,000.00

Project	Vendor	Annual Amount	Total Potential Spend	Purpose	Budget	
					Source	Amount
3 ITB 22-038-1 Airfield Falls Trailhead Conservation Park Landscape Maintenance	Landtec Services	\$44,000.00	\$220,000.00	Landscape maintenance services for Airfield Falls Trailhead and Conservation Park. Original contract term was for one year with four annual renewal options. Fiscal Year 2023 is the first annual renewal option.	Recreation	\$44,000.00

Project	Vendor	Annual Amount	Total Potential Spend	Purpose	Budget	
					Source	Amount
4 ITB 18-122 Grounds Maintenance - Central Facilities	Lawn Patrol Service, Inc.	\$54,705.00	\$273,525.00	Grounds maintenance at Central Facilities. Original contract term was for one year with four annual renewal options. FY 2023 is the fourth annual renewal option.	Revenue	\$54,705.00

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 5

DATE: September 20, 2022

SUBJECT: Consider Approval of Fiscal Year 2023 General Fund Budget

FUNDING: Fiscal Year 2023 General Fund

RECOMMENDATION:

Management recommends approval of the proposed Fiscal Year 2023 General Fund budgeted expenditures of \$22,367,363.

DISCUSSION:

The proposed General Fund Budget consists of \$22,367,363 related to Flood Control expenditures offset by projected revenues of \$24,800,000 from property tax revenues and interest income.

The Board of Directors met on July 26, 2022 for a budget workshop and no changes have been made since that time.

A summary of all budgets being approved for FY2023 has been added for reference and can be seen on pages 1 through 3 of the attached General Fund Budget book. Please see attached the General Fund Budget book for further details.

Submitted By:

Sandy Newby
Chief Financial Officer



**Fiscal Year 2023
Proposed
General Fund
Operating Budget**

**Board Meeting
September 21, 2022**

Summarized FY23 Proposed Revenue Budgets

Revenues	Revenue Fund FY23 Proposed Budget	General Fund FY23 Proposed Budget	Special Projects/ Contingency Fund FY23 Proposed Budget	Total Revenues
Sale of Water	\$ 151,795,319	\$ -	\$ -	\$ 151,795,319
Taxes	\$ -	\$ 24,600,000	\$ -	\$ 24,600,000
TIF Revenues	\$ -	\$ -	\$ 7,310,553	\$ 7,310,553
Oil and Gas Revenues	\$ -	\$ -	\$ 7,000,000	\$ 7,000,000
Excess Reserve Funds	\$ -	\$ -	\$ -	\$ -
Dallas Water Utility	\$ 2,798,048	\$ -	\$ -	\$ 2,798,048
Contributions	\$ 1,205,668	\$ -	\$ -	\$ 1,205,668
Interest Income	\$ 1,125,000	\$ 200,000	\$ 150,000	\$ 1,475,000
Other Water Sales	\$ 520,000	\$ -	\$ -	\$ 520,000
Other Income	\$ 630,858	\$ -	\$ 886,930	\$ 1,517,787
Total Revenues	\$ 158,074,893	\$ 24,800,000	\$ 15,347,483	\$ 198,222,376

Summarized FY23 Proposed Expenditure Budgets

Expenditures	Revenue Fund FY23	General Fund FY23	Special Projects/ Contingency Fund FY23	Total Expenditures
	Proposed Budget	Proposed Budget	Proposed Budget	
Debt Service/Project Costs	\$ 79,901,067	\$ -	\$ 7,310,553	\$ 87,211,620
Pumping Power	\$ 18,000,000	\$ -	\$ -	\$ 18,000,000
<u>Maintenance</u>				\$ -
Pipeline & Pump Station	\$ 4,596,015	\$ -	\$ -	\$ 4,596,015
Facilities & Grounds Maintenance	\$ 2,227,204	\$ 818,030	\$ -	\$ 3,045,234
Equipment & Fleet	\$ 807,319	\$ 518,761	\$ -	\$ 1,326,080
Maintenance Support	\$ 874,340	\$ 569,390	\$ -	\$ 1,443,730
Benbrook Reservoir O&M	\$ 604,365	\$ -	\$ -	\$ 604,365
Stream Gauging Stations	\$ 195,000	\$ 252,000	\$ -	\$ 447,000
Total Maintenance	\$ 9,304,243	\$ 2,158,181	\$ -	\$ 11,462,424
<u>Watershed Protection, Environmental Stewardship and Public Outreach</u>				
Water Conservation Program	\$ 2,895,502	\$ -	\$ -	\$ 2,895,502
Watershed Protection	\$ 415,685	\$ -	\$ -	\$ 415,685
Environmental	\$ 442,460	\$ 66,275	\$ -	\$ 508,735
Pollution Campaign	\$ 40,500	\$ 9,500	\$ -	\$ 50,000
Reservoir Cleanups	\$ 47,000	\$ -	\$ -	\$ 47,000
Stormwater Program	\$ -	\$ 75,000	\$ -	\$ 75,000
Public Outreach	\$ -	\$ 92,527	\$ -	\$ 92,527
Total Watershed Protection & Environmental Stewardship	\$ 3,841,147	\$ 243,302	\$ -	\$ 4,084,449
System Improvements & Capital Equipment	\$ 7,227,473	\$ 3,138,736	\$ -	\$ 10,366,209
Net Recreation Expenses	\$ -	\$ -	\$ 1,731,262	\$ 1,731,262
Panther Island/Central City Canal Consulting	\$ -	\$ -	\$ 350,000	\$ 350,000
Panther Island Land Strategy	\$ -	\$ -	\$ 100,000	\$ 100,000
<u>Support Services</u>				
Employee Related	\$ 30,769,145	\$ 11,197,211	\$ -	\$ 41,966,357
Legal Fees	\$ -	\$ -	\$ -	\$ -
Professional Services	\$ 3,403,783	\$ 1,999,202	\$ -	\$ 5,402,985
Admin Support Services	\$ 2,927,803	\$ 2,790,944	\$ -	\$ 5,718,747
IT	\$ 2,700,232	\$ 839,786	\$ -	\$ 3,540,018
Total Support Services	\$ 39,800,963	\$ 16,827,144	\$ -	\$ 56,628,106
Total Expenditures	\$ 158,074,893	\$ 22,367,363	\$ 9,491,815	\$ 189,834,070

Revenue, General, and Special Projects/Contingency Funds

Full Time Equivalents Budgeted by Fund

	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>
Revenue	256	250	243
General	92	91	86
Special Project/Contingency	9	10	9
Dallas	36	49	71
Total	393	400	409

Budgeted Expenditures Per Capita

	<u>Revenue</u>	<u>General</u>	<u>Special Projects/ Contingency</u>
Revenues Per Capita	\$ 73.74	\$ 55.90	\$ 34.59
Expenditures Per Capita	\$ 73.74	\$ 50.42	\$ 21.40

Population data is from 2021. General and Special Project/Contingency funds population is the TRWD taxing/voting district. Revenue Fund population is the service area which purchases water from TRWD.

General Fund

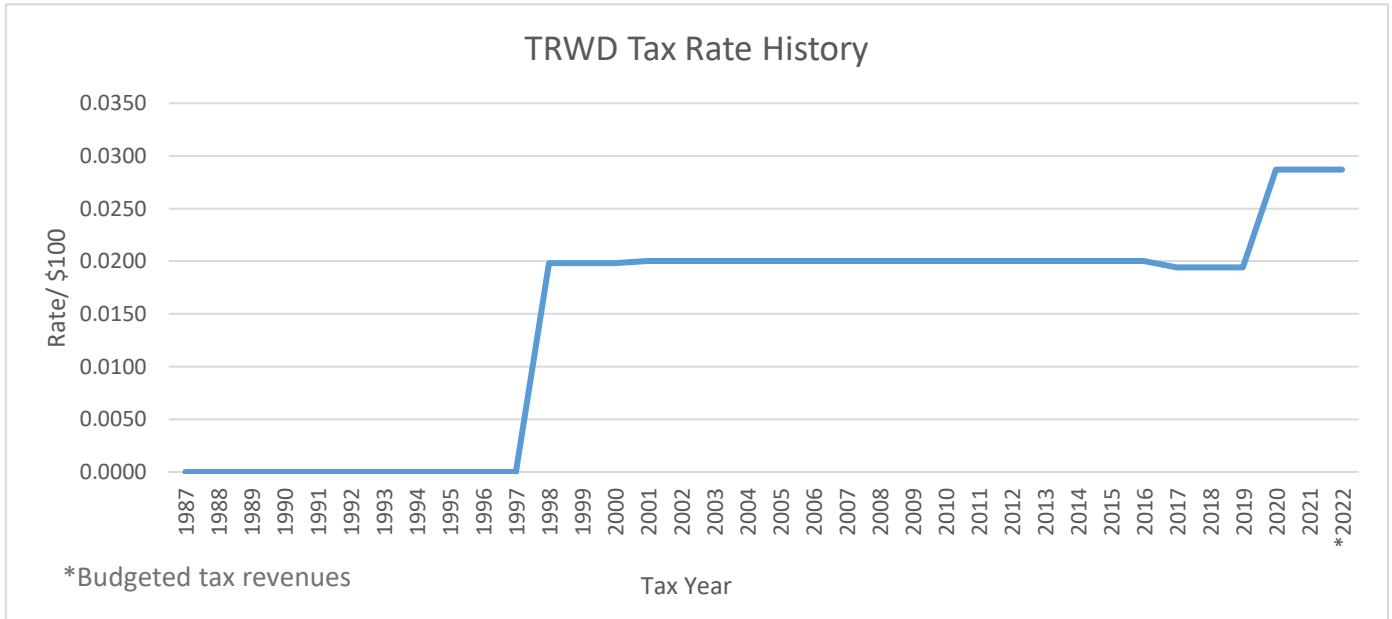
Flood Protection



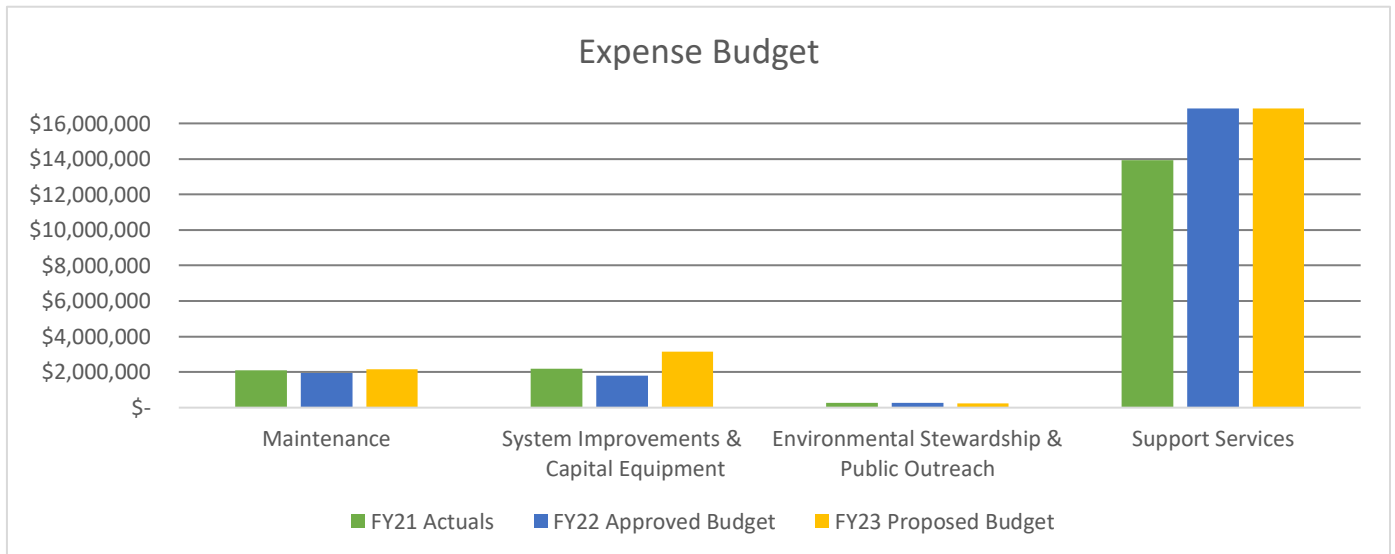
Trinity River

TRWD General Fund FY23 Budget Highlights

TRWD has the lowest tax rate in Tarrant County. The graph below illustrates our tax rate history.



Material and labor costs have all increased significantly during FY22 and are expected to continue to increase over the next year, leading to overall increases in the FY23 Expense Budget.



Flood Protection FY23 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 cost effectively manage the system. The District believes in preparing now for the future in order to protect its citizens in the best possible manner.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget
Flood Protection System Revenues			
Taxes	\$ 23,089,002	\$ 22,000,000	\$ 24,600,000
Interest Income	\$ 55,864	\$ 150,000	\$ 200,000
Total Revenues	\$ 23,144,866	\$ 22,150,000	\$ 24,800,000
Flood Protection System Expenditures			
Operating	\$ 16,273,360	\$ 19,063,980	\$ 19,228,627
System Improvements & Capital Equipment	\$ 2,190,805	\$ 1,805,000	\$ 3,138,736
Total Expenditures	\$ 18,464,165	\$ 20,868,980	\$ 22,367,363
Budgeted Net Increase to Equity	\$ 4,680,701	\$ 1,281,020	\$ 2,432,637
Reimbursable Projects			
Reimbursable Project Revenues	\$ 888,412	\$ -	\$ -
Reimbursable Project Expenses	\$ 550,507	\$ -	\$ -
Total	\$ 337,905	\$ -	\$ -
Budgeted Net Increase to Equity	\$ 5,018,606	\$ 1,281,020	\$ 2,432,637

General Fund - Revenues

Summary Sources of Revenue

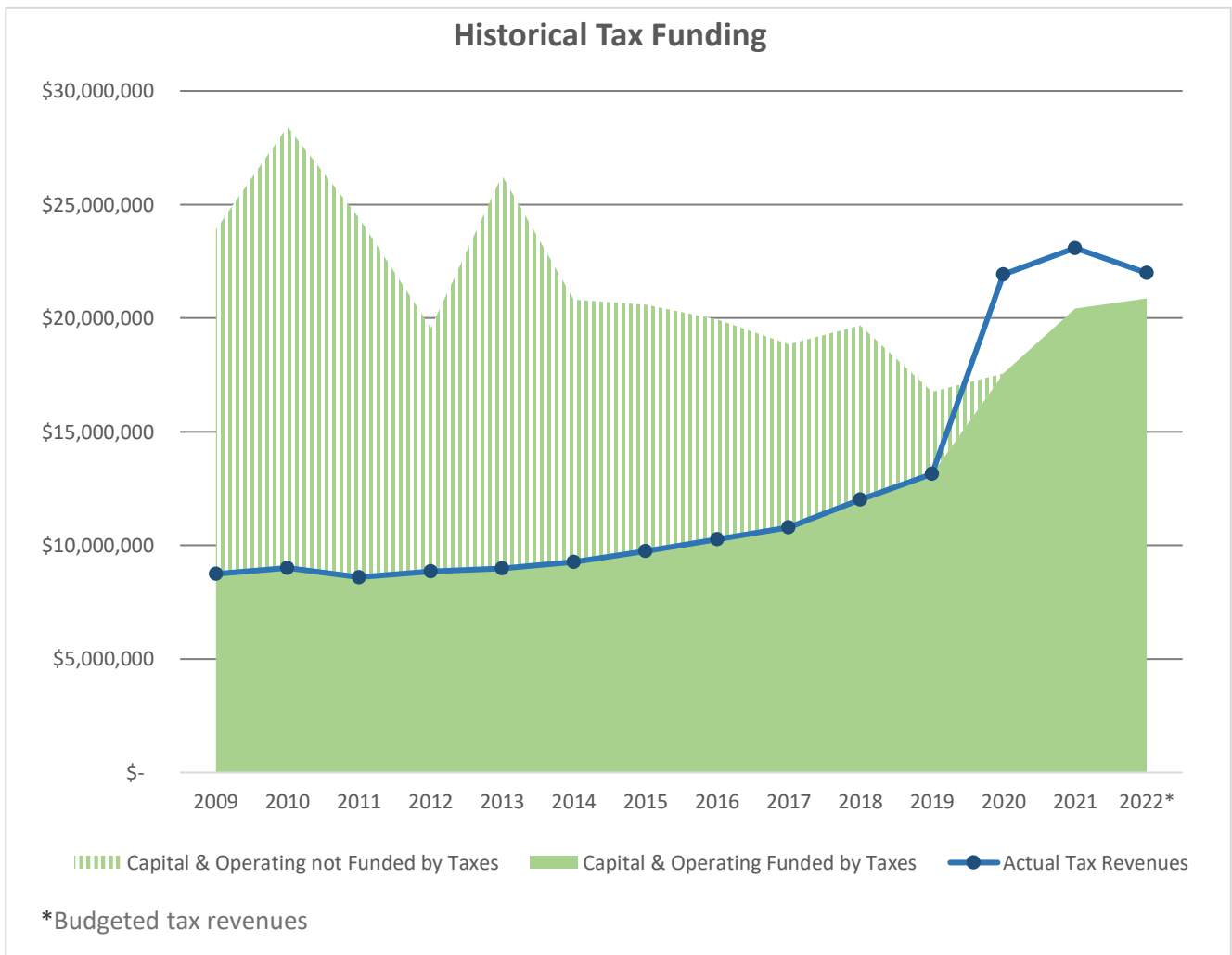
The following table illustrates the sources of General Fund income. These revenue components provide the needed financial resources for the District to continue its Flood Protection mission each year. Each of the revenue sources will be discussed further in the upcoming sections.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Taxes	\$ 23,089,002	\$ 22,000,000	\$ 24,600,000	\$ 2,600,000	11.82%
Interest Income	\$ 55,864	\$ 150,000	\$ 200,000	\$ 50,000	33.33%
Total Revenues	\$ 23,144,866	\$ 22,150,000	\$ 24,800,000	\$ 2,650,000	11.96%

Tax Revenues

As a governmental entity, the District is empowered to levy and collect ad valorem taxes to meet the maintenance, operations, and capital expenses of its flood control and administrative functions. The District's ad valorem property tax is proposed to be set at \$0.0269 per \$100 valuation and is budgeted to generate \$24.6 million in revenues for the District. This is based on a net taxable value of approximately \$92 billion and represents a projected tax burden of approximately \$64 for an estimate average home valued at \$239 thousand.

The chart below shows the Property Tax Revenues for the past 14 years compared to the Operating and Capital Budget.



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. The investment portfolio has an overall average maturity of one year.

Interest rates have been low for a few years. However, with the uptake in current interest rates, the District has increased the expected interest income for FY23.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Interest Income	\$ 55,864	\$ 150,000	\$ 200,000	\$ 50,000	33.33%

Investment Income History



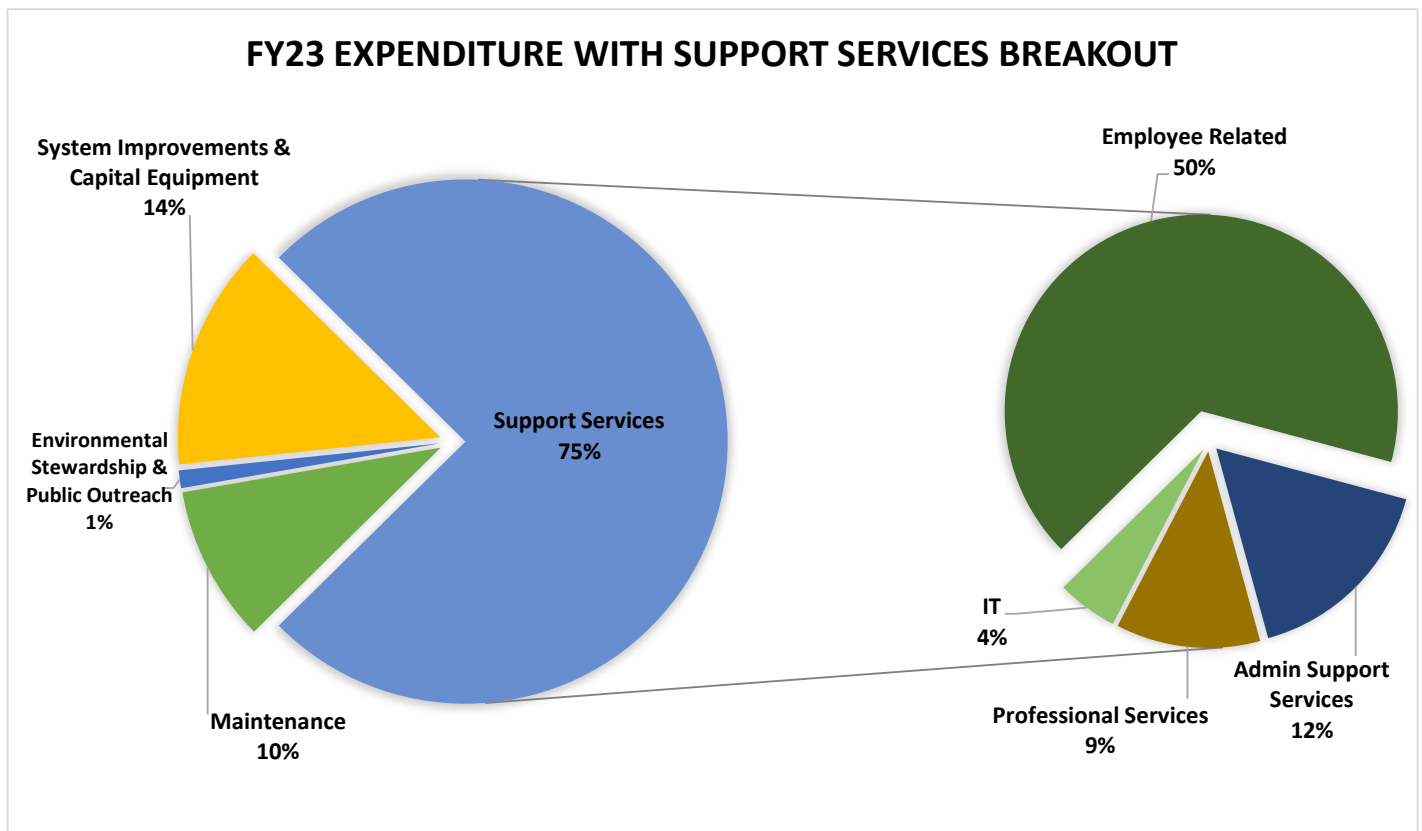
*Budgeted investment income

General Fund - Expenditures

Summary Expenditure Budget

The FY23 Flood Protection Operating Budget is presented below in budget categories. Flood protection maintenance and system improvement and capital equipment budgets are directly related to costs associated with the District's commitment to reducing the public's risk of flooding. Environmental stewardship and public outreach programs have become vital elements of the District's overall operating budget. Support Services are comprised of 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	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Maintenance	\$ 2,093,386	\$ 1,954,274	\$ 2,158,181	\$ 203,907	10.43%
System Improvements & Capital Equipment	\$ 2,190,805	\$ 1,805,000	\$ 3,138,736	\$ 1,333,736	73.89%
Environmental Stewardship & Public Outreach	\$ 263,618	\$ 272,451	\$ 243,302	\$ (29,149)	-10.70%
Support Services	\$ 13,916,356	\$ 16,837,255	\$ 16,827,144	\$ (10,111)	-0.06%
Total	\$ 18,464,165	\$ 20,868,980	\$ 22,367,363	\$ 1,498,383	7.18%

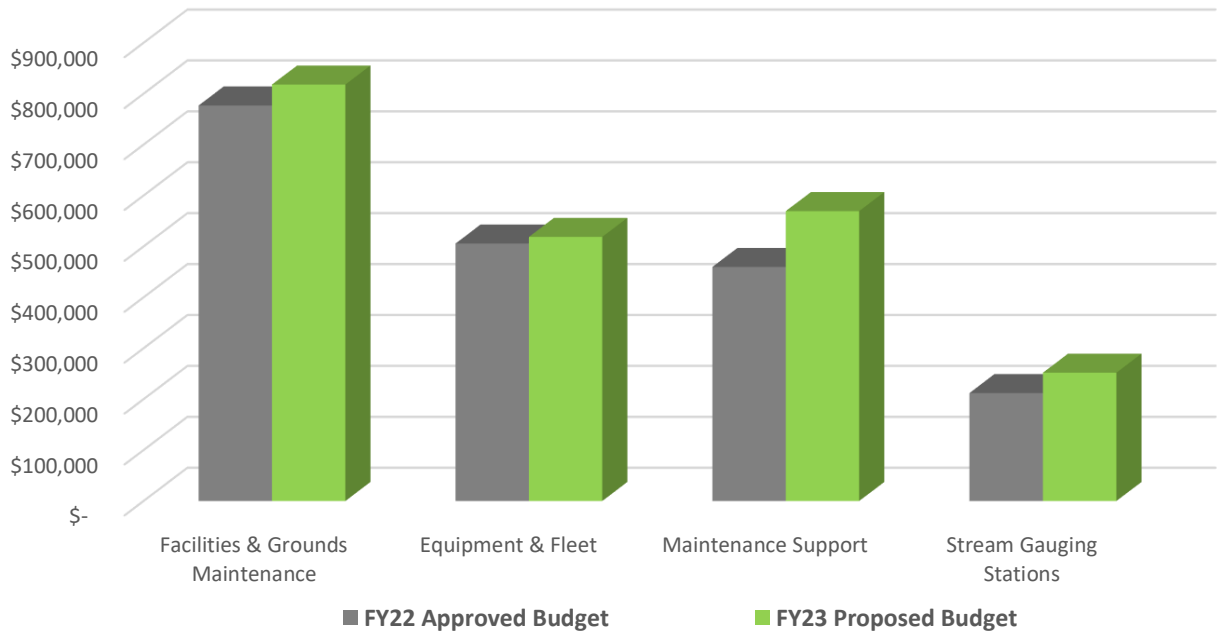


Maintenance Budget

The Flood Protection Operations Budget consists of maintenance budgets that are directly related to the Flood Protection strategic goals. In FY23, the overall maintenance costs are budgeted to increase by 10.4%. The increase is in due to inflation in fuel costs, supplies, construction costs, and contract labor. Additionally, the district expects to have higher costs for stream guage funding in the co-op agreement with the United States Geological Survey (USGS).

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Facilities & Grounds Maintenance	\$ 1,107,166	\$ 776,880	\$ 818,030	\$ 41,150	5.30%
Equipment & Fleet	\$ 497,325	\$ 505,681	\$ 518,761	\$ 13,081	2.59%
Maintenance Support	\$ 248,636	\$ 459,713	\$ 569,390	\$ 109,678	23.86%
Stream Gauging Stations	\$ 240,259	\$ 212,000	\$ 252,000	\$ 40,000	18.87%
Total	\$ 2,093,386	\$ 1,954,274	\$ 2,158,181	\$ 203,907	10.43%

Budget Comparison FY22 to FY23



System Improvements and Capital Equipment Budget

	FY23 Proposed Budget
<u>System Study & Design Projects:</u>	
Evaluations of Flood Levels for Fort Worth Floodway	\$ 300,000
Preliminary Design – Eagle Mountain Service Spillway Rehabilitation	\$ 150,000
Design for Erosion Repair Under Handley Ederville Road	\$ 150,000
	\$ 600,000
<u>Construction & Repair Projects:</u>	
White Settlement Road to Tucker Dam Resurface	\$ 450,000
Lower West Fork Silt Removal And Toe Erosion Repair	\$ 280,000
Perimeter Fence / Marine Creek Dam	\$ 150,000
Repair Erosion Under Riverside Drive	\$ 115,000
Miscellaneous Construction & Repair Projects	\$ 180,000
	\$ 1,175,000
<u>Capital Equipment:</u>	
Heavy Duty Bulldozer	\$ 450,000
Heavy Duty Motor Grader	\$ 300,000
Center Console Patrol Boat	\$ 174,736
Miscellaneous Capital Equipment	\$ 153,264
Rebudgeted from FY22	\$ 285,736
	\$ 1,363,736
Total	\$ 3,138,736

The District considers purchases of \$10,000 or greater for a piece of machinery or equipment to be capital equipment. Due to shortages in FY22, \$285,736 of capital equipment will not be received in FY22 and has been rebudgeted in FY23.

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.

TRWD is moving in a new direction for the Reverse Litter campaign and partnering with the City of Fort Worth to install a water wheel that will be used to collect trash from the Trinity River in Fort Worth. The campaign encourages cleaner waterways in the community by making the public aware of this device and the amount of trash that flows down the river every day, especially after heavy rain events. These funds were previously being used in the Reverse Litter campaign with Fort Worth and Dallas. The new campaign will have less expenses overall.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Public Outreach	\$ 71,997	\$ 96,351	\$ 92,527	\$ (3,824)	-3.97%
Stormwater Program	\$ 45,000	\$ 75,000	\$ 75,000	\$ -	0.00%
Environmental Costs	\$ 139,743	\$ 61,100	\$ 66,275	\$ 5,175	8.47%
Pollution Campaign	\$ 6,878	\$ 40,000	\$ 9,500	\$ (30,500)	-76.25%
Total	\$ 263,618	\$ 272,451	\$ 243,302	\$ (29,149)	-10.70%



Pictured above is a water wheel structure designed to pull trash out of our waterways.

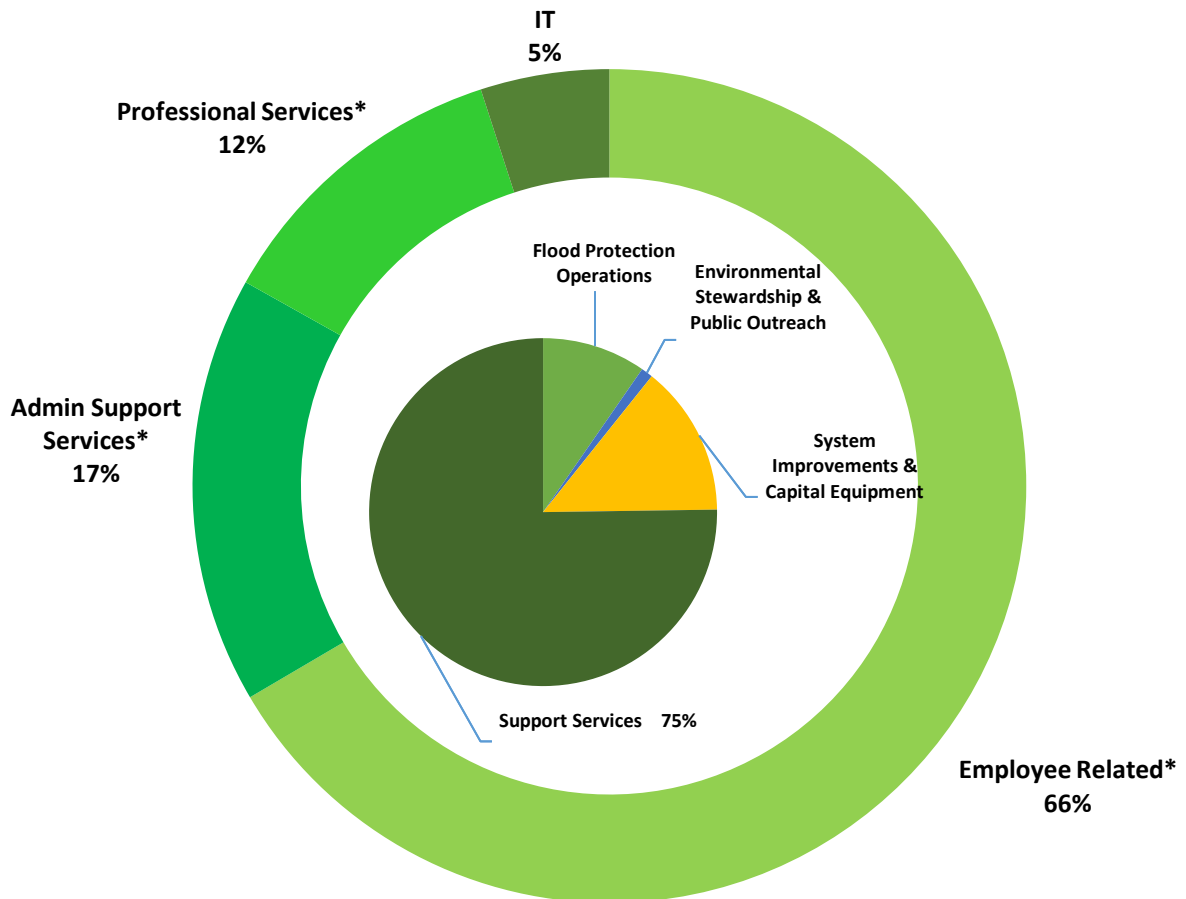
Support Services Budget

The Support Services budget consists of expenditures for services that support the District overall, including employee and administrative costs. Employee related budgets make up 66% of the overall support services budget for FY23. As shown in the table below, support budgets are proposed to decrease for FY23 as compared to FY22. Additional details of each of these areas will be discussed on the following pages.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Employee Related*	\$ 9,357,337	\$ 11,368,176	\$ 11,197,211	\$ (170,965)	-1.50%
Admin Support Services*	\$ 2,369,432	\$ 2,562,692	\$ 2,790,944	\$ 228,253	8.91%
Professional Services*	\$ 1,608,419	\$ 2,075,220	\$ 1,999,202	\$ (76,018)	-3.66%
IT	\$ 581,168	\$ 831,167	\$ 839,786	\$ 8,619	1.04%
Total	\$ 13,916,356	\$ 16,837,255	\$ 16,827,144	\$ (10,111)	-0.06%

* Additional details on following pages.

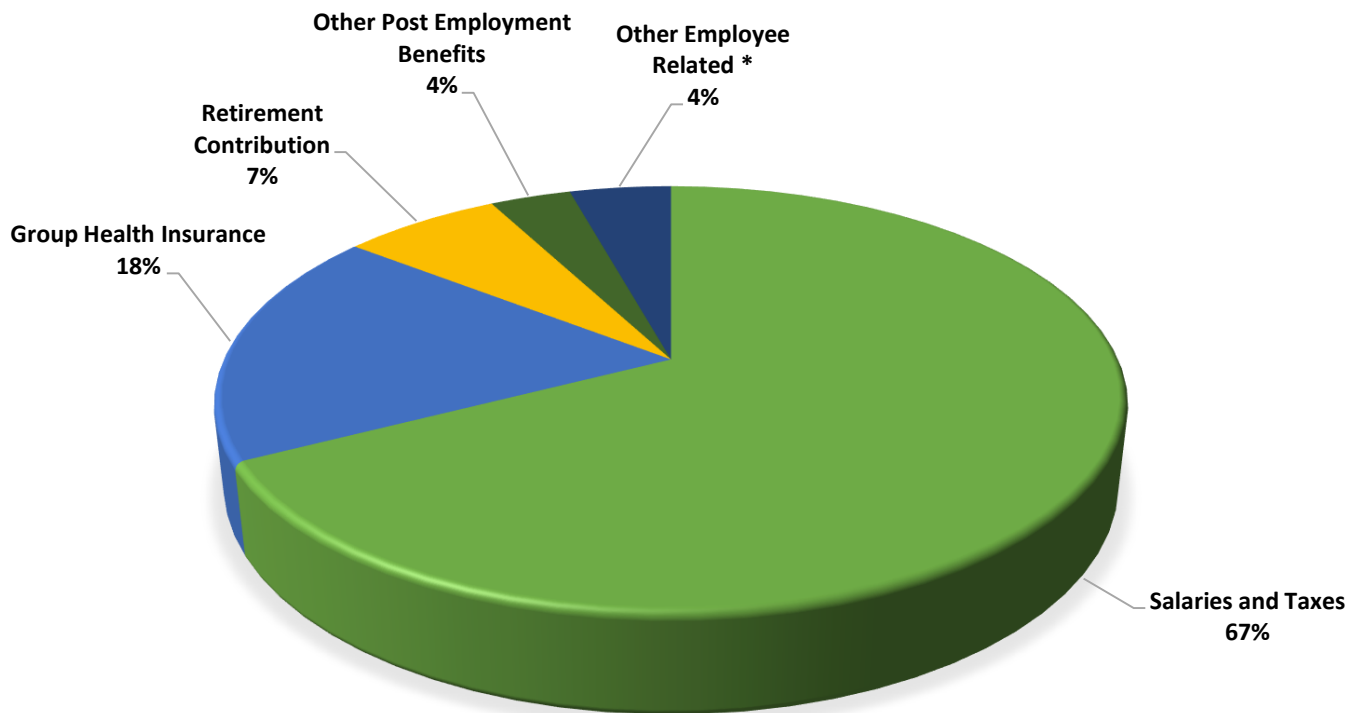
FY23 Proposed Budget



Employee Related Detail:

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Salaries and Taxes	\$ 6,543,091	\$ 7,475,130	\$ 7,551,037	\$ 75,908	1.02%
Group Health Insurance	\$ 1,486,069	\$ 2,213,438	\$ 2,022,318	\$ (191,120)	-8.63%
Retirement Contribution	\$ 731,955	\$ 793,263	\$ 754,848	\$ (38,415)	-4.84%
Other Post Employment Benefits	\$ 336,597	\$ 370,256	\$ 385,846	\$ 15,590	4.21%
Other Employee Related *	\$ 259,626	\$ 516,089	\$ 483,162	\$ (32,927)	-6.38%
Total	\$ 9,357,337	\$ 11,368,176	\$ 11,197,211	\$ (170,965)	-1.50%

* Other employee related costs include business and travel, education, and the employee wellness program.



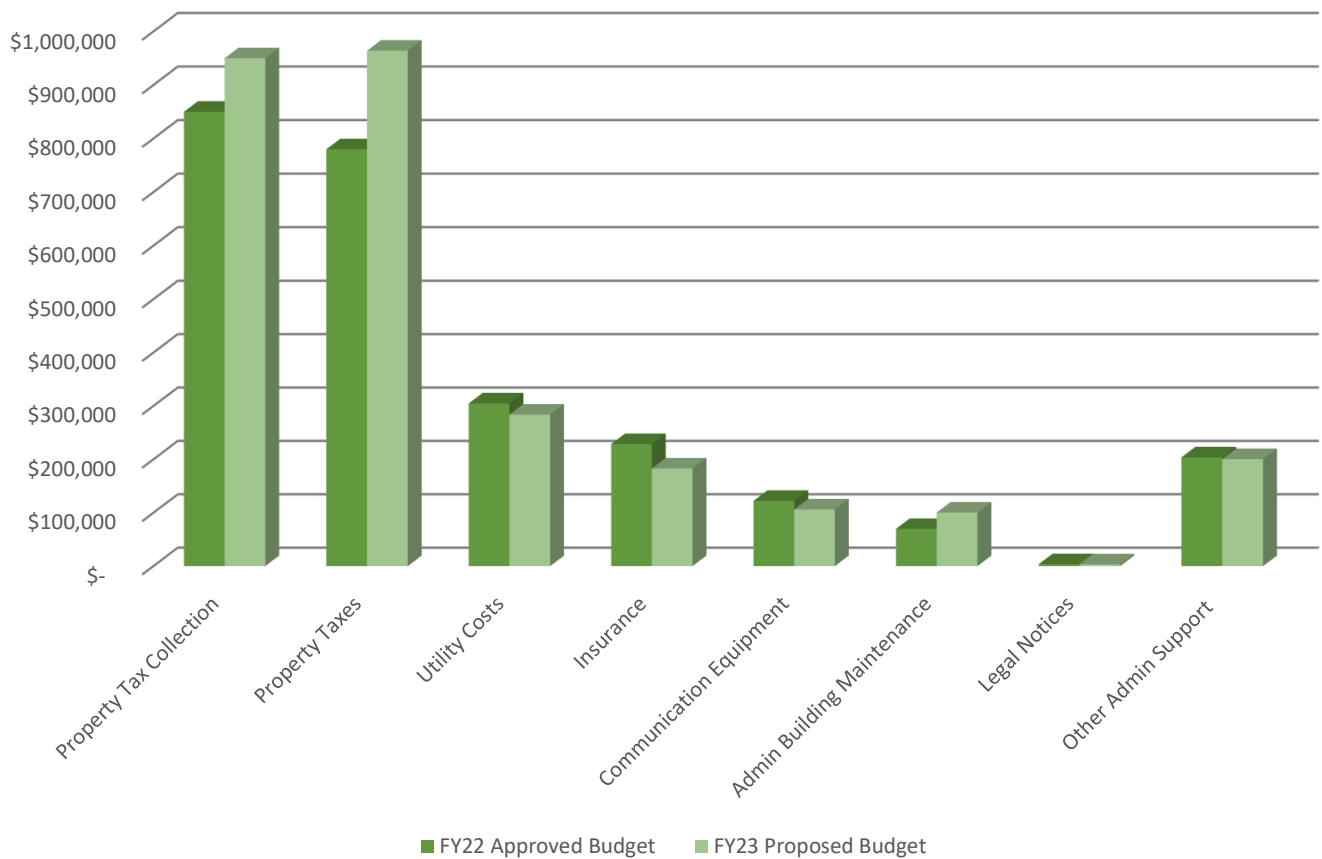
Total employee related expenditures budgeted for FY23 are \$11.2 million, representing a decrease of 1.50% from prior year’s budget.

In 2023, a change in allocation percentages resulted in less expenses being allocated to the General Fund. Additionally, health insurance dropped in FY23 due to the combination of the allocation shift and employee changes in coverage tiers. However, the annual percentage budgeted to cover items such as raises, promotions, and market adjustments has been increased from 3% to 6% due to the economic and recruiting challenges occurring across our industry. The net result is a 1.50% decrease.

Administrative Support Services Detail:

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Property Tax Collection	\$ 810,488	\$ 850,000	\$ 950,000	\$ 100,000	11.76%
Property Taxes	\$ 786,207	\$ 780,000	\$ 964,000	\$ 184,000	23.59%
Utility Costs	\$ 256,926	\$ 304,898	\$ 283,756	\$ (21,142)	-6.93%
Insurance	\$ 175,447	\$ 228,582	\$ 182,857	\$ (45,725)	-20.00%
Communication Equipment	\$ 70,666	\$ 122,270	\$ 106,170	\$ (16,100)	-13.17%
Admin Building Maintenance	\$ 79,148	\$ 69,660	\$ 100,249	\$ 30,590	43.91%
Legal Notices	\$ 2,673	\$ 3,530	\$ 3,410	\$ (120)	-3.40%
Other Admin Support	\$ 187,876	\$ 203,752	\$ 200,502	\$ (3,250)	-1.60%
Total	\$ 2,369,432	\$ 2,562,692	\$ 2,790,944	\$ 228,253	8.91%

Budget Comparison FY22 to FY23



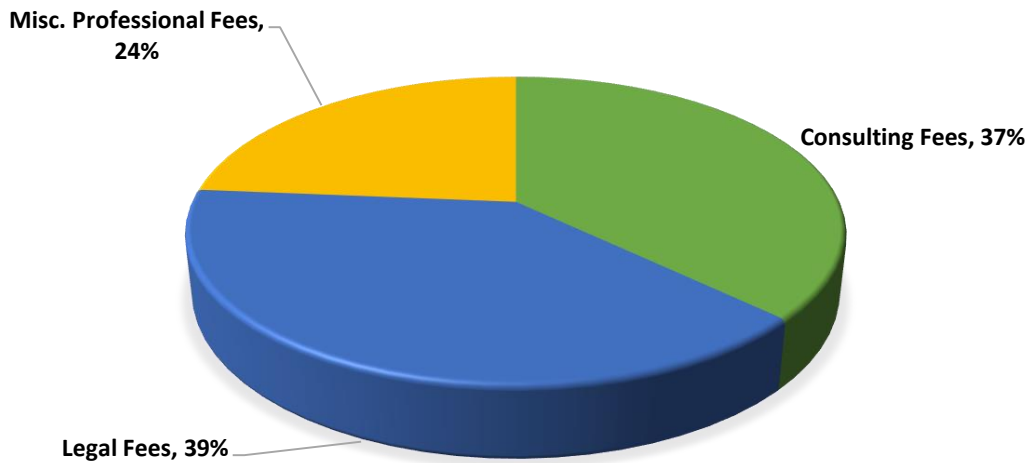
The Administrative Support Services budget consists of overhead type expenditures.

Property tax collection cost has increased due to the growing number of properties in the district.

Property taxes are budgeted to increase with rising property value. Additionally, the District pays property taxes through participation in Tax Increment Financing Districts set up by the City of Fort Worth.

Professional Services Detail:

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Consulting Fees	\$ 411,715	\$ 816,405	\$ 741,942	\$ (74,463)	-9.12%
Legal Fees	\$ 765,808	\$ 784,500	\$ 783,900	\$ (600)	-0.08%
Misc. Professional Fees	\$ 430,896	\$ 474,315	\$ 473,360	\$ (955)	-0.20%
Total	\$ 1,608,419	\$ 2,075,220	\$ 1,999,202	\$ (76,018)	-3.66%



Legal and consulting services make up majority of the FY23 Professional Services budget. Consulting fees include projects dealing with cyber security improvements, leadership development, and diversity, equity, and inclusion initiatives. The miscellaneous professional fees budget consists of the financial audit, surveying, and other professional fees.

General Fund - Flood Protection FY23 Budget

Revenues	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change	Notes*
Taxes	\$ 22,000,000	\$ 24,600,000	\$ 2,600,000	11.82%	
Interest Income	\$ 150,000	\$ 200,000	\$ 50,000	33.33%	1
Total Revenues	\$ 22,150,000	\$ 24,800,000	\$ 2,650,000	11.96%	

Expenditures	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change	Notes*
<u>Maintenance</u>					
Facilities & Grounds Maintenance	\$ 776,880	\$ 818,030	\$ 41,150	5.30%	
Equipment & Fleet	\$ 505,681	\$ 518,761	\$ 13,081	2.59%	
Maintenance Support	\$ 459,713	\$ 569,390	\$ 109,678	23.86%	2
Stream Gauging Stations	\$ 212,000	\$ 252,000	\$ 40,000	18.87%	3
Total Maintenance	\$ 1,954,274	\$ 2,158,181	\$ 203,907	10.43%	
System Improvements & Capital Equipment	\$ 1,805,000	\$ 3,138,736	\$ 1,333,736	73.89%	4
<u>Environmental Stewardship and Public Outreach</u>					
Public Outreach	\$ 96,351	\$ 92,527	\$ (3,824)	-3.97%	
Stormwater Program	\$ 75,000	\$ 75,000	\$ -	0.00%	
Environmental	\$ 61,100	\$ 66,275	\$ 5,175	8.47%	
Pollution Campaign	\$ 40,000	\$ 9,500	\$ (30,500)	-76.25%	5
Total Environmental Stewardship and Public Outreach	\$ 272,451	\$ 243,302	\$ (29,149)	-10.70%	
<u>Support Services</u>					
Employee Related	\$ 11,368,176	\$ 11,197,211	\$ (170,965)	-1.50%	
Admin Support Services	\$ 2,562,692	\$ 2,790,944	\$ 228,253	8.91%	
Professional Services	\$ 2,075,220	\$ 1,999,202	\$ (76,018)	-3.66%	
IT	\$ 831,167	\$ 839,786	\$ 8,619	1.04%	
Total Support Services	\$ 16,837,255	\$ 16,827,144	\$ (10,111)	-0.06%	
Total Expenditures	\$ 20,868,980	\$ 22,367,363	\$ 1,498,383	7.18%	
Budgeted Net Increase to Equity	\$ 1,281,020	\$ 2,432,637	\$ 1,151,617	89.90%	

*See explanations for significant variances on next page

Variance Explanations

1 Interest Income

With the uptake in current interest rates, the District has conservatively increased the expected interest income for FY23.

2 Maintenance Support

The increase is in due to inflation in fuel costs, supplies, construction costs, and contract labor.

3 Stream Gauging Stations

Increase due to projected costs from USGS and adding a new water quality gauge.

4 System Improvements & Capital Equipment

Increase includes evaluations of flood levels for Forth Worth floodway, silt removal and toe erosion repair on lower west fork, putting a fence around Marine Creek Dam, and fleet needing to be replaced along with new additions of a bulldozer, a motor grader, and a patrol boat to capital equipment.

5 Pollution Campaign

Decrease is due to sharing the cost with the City of Fort Worth. TRWD is partnering with the City of Fort Worth to raise awareness of pollution and implement a structure that will be used to collect trash from the Trinity River in Fort Worth.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 6

DATE: September 20, 2022

SUBJECT: Consider Approval of Fiscal Year 2023 Revenue Fund Budget

FUNDING: Fiscal Year 2023 Revenue Fund

RECOMMENDATION:

Management recommends approval of the proposed Fiscal Year 2023 Revenue Fund budgeted expenditures of \$158,074,893.

DISCUSSION:

The proposed Revenue Fund Budget consists of Water Supply expenditures of \$158,074,893 offset by projected non-contract revenues of \$6,279,574 for a proposed net revenue requirement from contract customers of \$151,795,319.

The resulting proposed budgeted water rate for FY 2023 is \$1.29191.

The Board of Directors met on July 26, 2022 for a budget workshop and no changes have been made since that time. The Customer Advisory Committee met on September 7, 2022 and recommends the proposed FY 2023 Revenue Fund budget for Water Supply to the TRWD Board of Directors.

A summary of all budgets being approved for FY2023 has been added and can be seen on pages 1 through 3 of the attached Revenue Fund Budget Book. Please see attached Revenue Fund Budget Book for further details.

Submitted By:

Sandy Newby
Chief Financial Officer



**Fiscal Year 2023
Proposed
Revenue Fund
Operating Budget**

**Board Meeting
September 21, 2022**

Summarized FY23 Proposed Revenue Budgets

Revenues	Revenue Fund FY23 Proposed Budget	General Fund FY23 Proposed Budget	Special Projects/ Contingency Fund FY23 Proposed Budget	Total Revenues
Sale of Water	\$ 151,795,319	\$ -	\$ -	\$ 151,795,319
Taxes	\$ -	\$ 24,600,000	\$ -	\$ 24,600,000
TIF Revenues	\$ -	\$ -	\$ 7,310,553	\$ 7,310,553
Oil and Gas Revenues	\$ -	\$ -	\$ 7,000,000	\$ 7,000,000
Excess Reserve Funds	\$ -	\$ -	\$ -	\$ -
Dallas Water Utility	\$ 2,798,048	\$ -	\$ -	\$ 2,798,048
Contributions	\$ 1,205,668	\$ -	\$ -	\$ 1,205,668
Interest Income	\$ 1,125,000	\$ 200,000	\$ 150,000	\$ 1,475,000
Other Water Sales	\$ 520,000	\$ -	\$ -	\$ 520,000
Other Income	\$ 630,858	\$ -	\$ 886,930	\$ 1,517,787
Total Revenues	\$ 158,074,893	\$ 24,800,000	\$ 15,347,483	\$ 198,222,376

Summarized FY23 Proposed Expenditure Budgets

Expenditures	Revenue Fund FY23 Proposed Budget	General Fund FY23 Proposed Budget	Special Projects/ Contingency Fund FY23 Proposed Budget	Total Expenditures
Debt Service/Project Costs	\$ 79,901,067	\$ -	\$ 7,310,553	\$ 87,211,620
Pumping Power	\$ 18,000,000	\$ -	\$ -	\$ 18,000,000
<u>Maintenance</u>				\$ -
Pipeline & Pump Station	\$ 4,596,015	\$ -	\$ -	\$ 4,596,015
Facilities & Grounds Maintenance	\$ 2,227,204	\$ 818,030	\$ -	\$ 3,045,234
Equipment & Fleet	\$ 807,319	\$ 518,761	\$ -	\$ 1,326,080
Maintenance Support	\$ 874,340	\$ 569,390	\$ -	\$ 1,443,730
Benbrook Reservoir O&M	\$ 604,365	\$ -	\$ -	\$ 604,365
Stream Gauging Stations	\$ 195,000	\$ 252,000	\$ -	\$ 447,000
Total Maintenance	\$ 9,304,243	\$ 2,158,181	\$ -	\$ 11,462,424
<u>Watershed Protection, Environmental Stewardship and Public Outreach</u>				
Water Conservation Program	\$ 2,895,502	\$ -	\$ -	\$ 2,895,502
Watershed Protection	\$ 415,685	\$ -	\$ -	\$ 415,685
Environmental	\$ 442,460	\$ 66,275	\$ -	\$ 508,735
Pollution Campaign	\$ 40,500	\$ 9,500	\$ -	\$ 50,000
Reservoir Cleanups	\$ 47,000	\$ -	\$ -	\$ 47,000
Stormwater Program	\$ -	\$ 75,000	\$ -	\$ 75,000
Public Outreach	\$ -	\$ 92,527	\$ -	\$ 92,527
Total Watershed Protection & Environmental Stewardship	\$ 3,841,147	\$ 243,302	\$ -	\$ 4,084,449
System Improvements & Capital Equipment	\$ 7,227,473	\$ 3,138,736	\$ -	\$ 10,366,209
Net Recreation Expenses	\$ -	\$ -	\$ 1,731,262	\$ 1,731,262
Panther Island/Central City Canal Consulting	\$ -	\$ -	\$ 350,000	\$ 350,000
Panther Island Land Strategy	\$ -	\$ -	\$ 100,000	\$ 100,000
<u>Support Services</u>				
Employee Related	\$ 30,769,145	\$ 11,197,211	\$ -	\$ 41,966,357
Legal Fees	\$ -	\$ -	\$ -	\$ -
Professional Services	\$ 3,403,783	\$ 1,999,202	\$ -	\$ 5,402,985
Admin Support Services	\$ 2,927,803	\$ 2,790,944	\$ -	\$ 5,718,747
IT	\$ 2,700,232	\$ 839,786	\$ -	\$ 3,540,018
Total Support Services	\$ 39,800,963	\$ 16,827,144	\$ -	\$ 56,628,106
Total Expenditures	\$ 158,074,893	\$ 22,367,363	\$ 9,491,815	\$ 189,834,070

Revenue, General, and Special Projects/Contingency Funds

Full Time Equivalents Budgeted by Fund

	FY21	FY22	FY23
Revenue	256	250	243
General	92	91	86
Special Project/Contingency	9	10	9
Dallas	36	49	71
Total	393	400	409

Budgeted Expenditures Per Capita

	Revenue	General	Special Projects/ Contingency
Revenues Per Capita	\$ 73.74	\$ 55.90	\$ 34.59
Expenditures Per Capita	\$ 73.74	\$ 50.42	\$ 21.40

Population data is from 2021. General and Special Project/Contingency funds population is the TRWD taxing/voting district. Revenue Fund population is the service area which purchases water from TRWD.

Revenue Fund

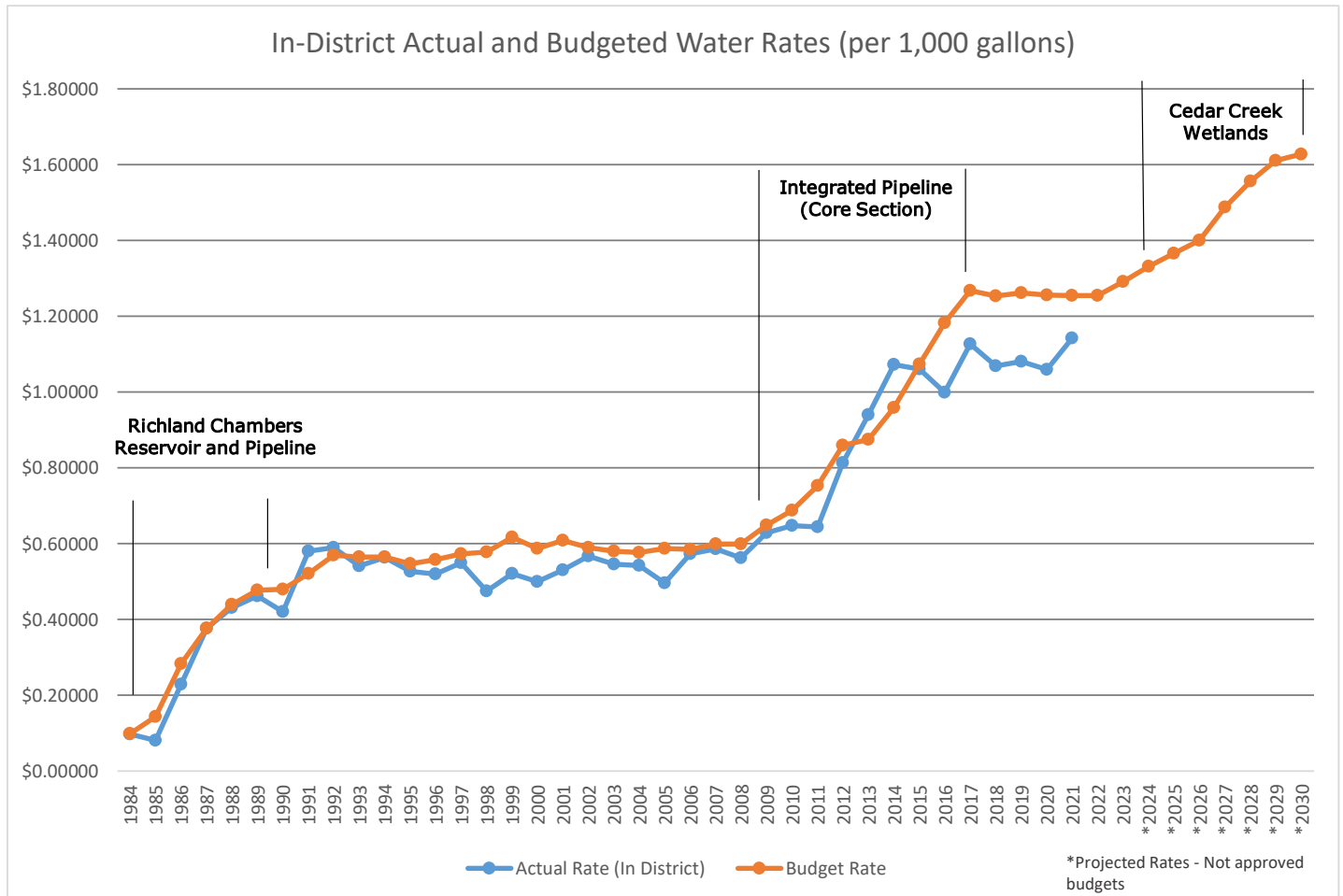
Water Supply



Spillway at Richland Chambers

TRWD Revenue Fund FY23 Budget Highlights

TRWD strives to deliver a reliable, resilient supply of water to the public at the lowest cost and highest quality possible. During large construction projects, the rate rises due to debt service issued for these large projects as well as the additional operations & maintenance cost associated with a larger system. Note in the chart below the rise during the construction of Richland Chambers and during the Integrated Pipeline projects. Additionally, TRWD strives to keep a stable rate when not in a construction cycle, note 1992-2009 and 2016-2022. In 2022, TRWD began the design of the Cedar Creek Wetlands and will therefore be in a rising rate environment in FY23 due to debt service. The District will continue to use all tools available to deliver the lowest cost and highest quality possible system.



TRWD Revenue Fund FY23 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 and Mansfield as well as the Trinity River Authority.

Proposed FY23 Revenue Fund Budget

Revenues	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget
Sale of Water	\$ 136,586,934	\$ 146,199,243	\$ 151,795,319
Contributions	\$ 1,142,129	\$ 1,205,668	\$ 1,205,668
Interest Income	\$ 1,135,827	\$ 910,000	\$ 1,125,000
Other Income	\$ 3,235,686	\$ 6,555,077	\$ 3,948,906
Total Revenues	\$ 142,100,576	\$ 154,869,988	\$ 158,074,893

Expenditures	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget
Operating	\$ 57,885,929	\$ 69,712,861	\$ 70,946,353
System Improvements & Capital Equipment	\$ 8,056,693	\$ 5,256,060	\$ 7,227,473
Debt Service	\$ 76,157,954	\$ 79,901,067	\$ 79,901,067
Total Expenditures	\$ 142,100,576	\$ 154,869,988	\$ 158,074,893

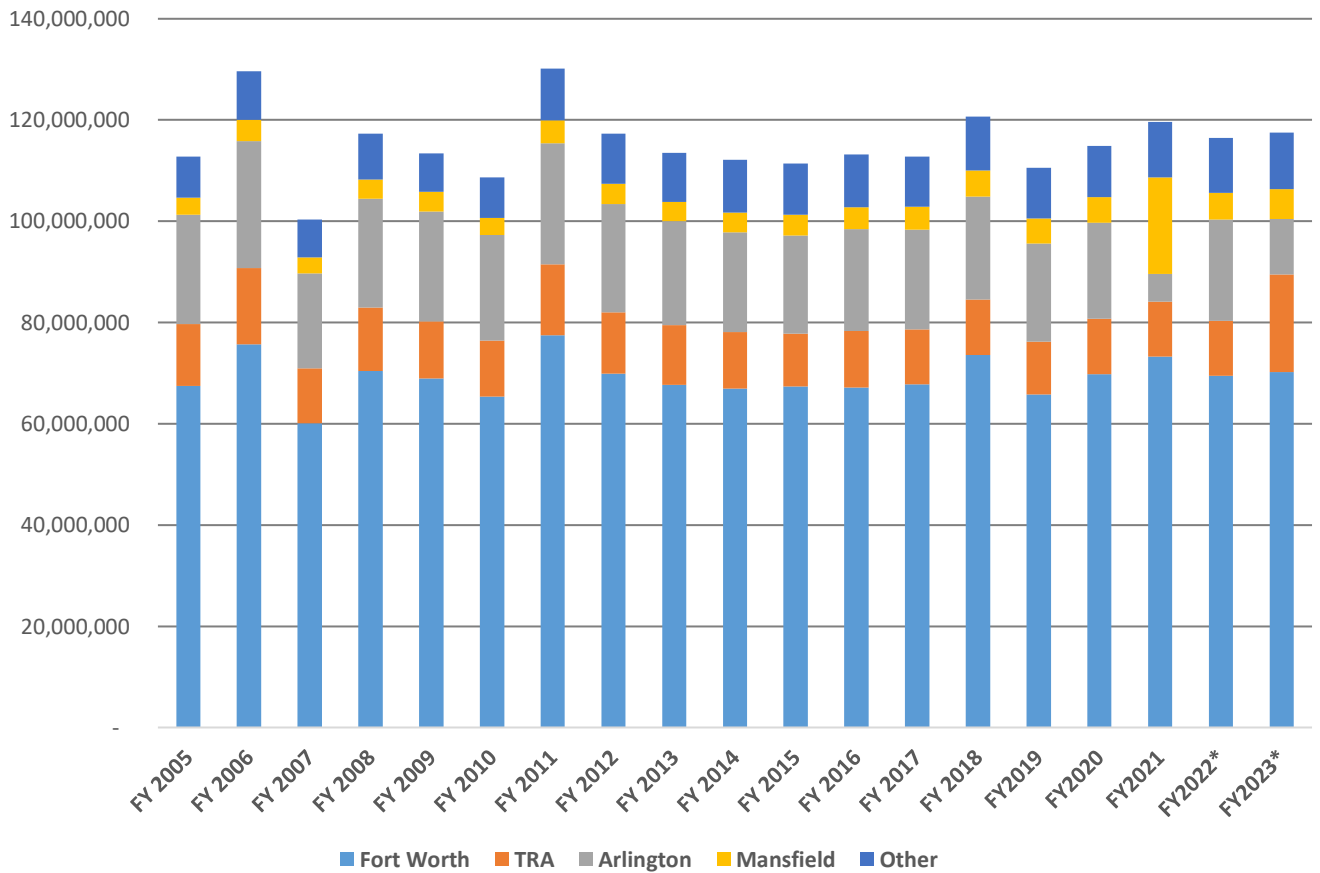
	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget
System Rate	\$ 1.14219	\$ 1.25503	\$ 1.29191

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 17 years and budgeted usage for FY22 & FY23. 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 FY23. This budgeted rate, expressed in dollars per 1,000 gallons, is calculated by taking the budgeted expenditures for FY23, subtracting other income sources and dividing that number by the estimated usage in gallons. Each fiscal year, the four primary 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	FY22 Approved Budget	FY23 Proposed Budget	% Change
Total Expenditures	\$ 154,869,988	\$ 158,074,893	2.07%
Less: Other Revenues Not Through Sale of Water	\$ (8,670,745)	\$ (6,279,574)	-27.58%
Net System Revenue Requirement	\$ 146,199,243	\$ 151,795,319	3.83%

Gallage (000'S)	FY22 Budgeted Water Sales	FY23 Budgeted Water Sales	% Change
Fort Worth	69,513,944	70,262,163	1.08%
Arlington	20,003,136	19,206,381	-3.98%
Trinity River Authority	10,815,437	10,958,419	1.32%
Mansfield	5,254,197	5,869,707	11.71%
Other	10,904,250	11,200,000	2.71%
Total Gallage (000's)	116,490,964	117,496,670	0.86%

Calculated System Rate	FY22 Budgeted Rate	FY23 Budgeted Rate	% Change
District Rate	\$1.25503	\$1.29191	2.94%

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 2022 - 2030 is shown below.

	Approved 2022	Proposed 2023	PROJECTED 2024	PROJECTED 2025	PROJECTED 2026
SYSTEM OPERATIONS					
Operations and Maintenance	51,630,643	52,726,353	56,944,461	61,500,018	67,650,020
Pumping Power	18,000,000	18,000,000	18,000,000	18,000,000	18,000,000
Capital & System Improvements	5,338,278	7,447,473	10,000,000	10,000,000	10,000,000
TOTAL SYSTEM OPERATIONS	74,968,921	78,173,826	84,944,461	89,500,018	95,650,020
CURRENT DEBT SERVICE					
	79,901,067	79,901,067	76,205,606	74,640,628	74,624,850
PROPOSED BOND DEBT SERVICE					
ECP Bonds			3,500,000	3,000,000	1,000,000
2024 Issue - \$60 mil			2,000,000	4,067,500	4,069,750
2025 Issue - \$180 mil				12,528,375	12,528,375
2026 Issue - \$125 mil					3,383,000
2027 Issue - \$80 mil					
2028 Issue - \$50 mil					
TOTAL PROPOSED BOND DEBT SERVICE			5,500,000	19,595,875	20,981,125
TOTAL DEBT SERVICE	79,901,067	79,901,067	81,705,606	94,236,503	95,605,975
TOTAL EXPENDITURES	154,869,988	158,074,893	166,650,067	183,736,521	191,255,994
LESS: OTHER INCOME	8,670,745	6,279,574	9,068,803	11,096,925	11,339,904
NET SYSTEM REQUIREMENTS	146,199,243	151,795,319	157,581,264	172,639,595	179,916,091
PROJECTED WATER USE (1000 GAL.)					
	2022	2023	2024	2025	2026
FORT WORTH	69,513,944	70,262,163	70,466,790	77,059,955	78,482,649
ARLINGTON	20,003,136	19,206,381	19,206,381	20,938,465	21,197,676
TRINITY RIVER AUTHORITY	10,815,437	10,958,419	11,094,830	10,956,295	11,005,313
MANSFIELD	5,254,197	5,869,707	6,104,495	5,792,289	5,964,871
OTHER	10,904,250	11,200,000	11,424,000	11,652,480	11,885,530
TOTAL USAGE	116,490,964	117,496,671	118,296,496	126,399,484	128,536,039
PROJECTED SYSTEM WATER RATES (\$/1000 GAL.)					
System Rate	1.25503	1.29191	1.33209	1.36583	1.39973
PROJECTED SYSTEM REVENUE: (\$)					
FORT WORTH	87,241,840	90,772,508	93,867,918	105,250,425	109,854,727
ARLINGTON	25,104,465	24,812,948	25,584,577	28,598,282	29,671,079
TRINITY RIVER AUTHORITY	13,573,660	14,157,310	14,779,283	14,964,383	15,404,496
MANSFIELD	6,594,156	7,583,143	8,131,720	7,911,254	8,349,225
OTHER	13,685,122	14,469,411	15,217,766	15,915,250	16,636,564
TOTAL SYSTEM REVENUE	146,199,243	151,795,319	157,581,264	172,639,595	179,916,091

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System Rate Model

	PROJECTED 2027	PROJECTED 2028	PROJECTED 2029	PROJECTED 2030
<u>SYSTEM OPERATIONS</u>				
Operations and Maintenance	74,415,022	81,856,524	90,042,177	99,046,394
Pumping Power	18,000,000	18,000,000	18,000,000	18,000,000
Capital & System Improvements	10,000,000	10,000,000	10,000,000	10,000,000
TOTAL SYSTEM OPERATIONS	102,415,022	109,856,524	118,042,177	127,046,394
<u>CURRENT DEBT SERVICE</u>	74,671,384	74,561,330	74,510,172	71,460,939
<u>PROPOSED BOND DEBT SERVICE</u>				
ECP Bonds	1,000,000	1,000,000	1,000,000	1,000,000
2024 Issue - \$60 mil	4,069,500	4,066,750	4,066,375	4,068,125
2025 Issue - \$180 mil	12,531,375	12,531,750	12,529,250	12,528,500
2026 Issue - \$125 mil	8,706,250	8,709,125	8,706,750	8,708,875
2027 Issue - \$80 mil	2,162,000	5,567,125	5,566,750	5,563,125
2028 Issue - \$50 mil		1,198,238	3,237,125	3,237,525
TOTAL PROPOSED BOND DEBT SERVICE	28,469,125	33,072,988	35,106,250	35,106,150
TOTAL DEBT SERVICE	103,140,509	107,634,318	109,616,422	106,567,089
TOTAL EXPENDITURES	205,555,530	217,490,842	227,658,599	233,613,483
LESS: OTHER INCOME	11,098,766	10,774,614	10,268,625	10,382,058
NET SYSTEM REQUIREMENTS	194,456,764	206,716,227	217,389,974	223,231,425
<u>PROJECTED WATER USE (1000 GAL.)</u>				
FORT WORTH	79,905,342	81,328,036	82,750,729	84,173,422
ARLINGTON	21,456,887	21,716,098	21,975,309	22,234,520
TRINITY RIVER AUTHORITY	11,054,330	11,103,348	11,152,366	11,201,383
MANSFIELD	6,137,453	6,310,035	6,482,617	6,655,199
OTHER	12,123,240	12,365,705	12,613,019	12,865,279
TOTAL USAGE	130,677,252	132,823,222	134,974,040	137,129,803
<u>PROJECTED SYSTEM WATER RATES (\$/1000 GAL.)</u>				
System Rate	1.48807	1.55633	1.61061	1.62788
<u>PROJECTED SYSTEM REVENUE: (\$)</u>				
FORT WORTH	118,904,660	126,572,933	133,278,805	137,024,574
ARLINGTON	31,929,328	33,797,327	35,393,560	36,195,221
TRINITY RIVER AUTHORITY	16,449,605	17,280,429	17,962,066	18,234,553
MANSFIELD	9,132,953	9,820,471	10,440,941	10,833,893
OTHER	18,040,218	19,245,068	20,314,602	20,943,184
TOTAL SYSTEM REVENUE	194,456,764	206,716,227	217,389,974	223,231,425

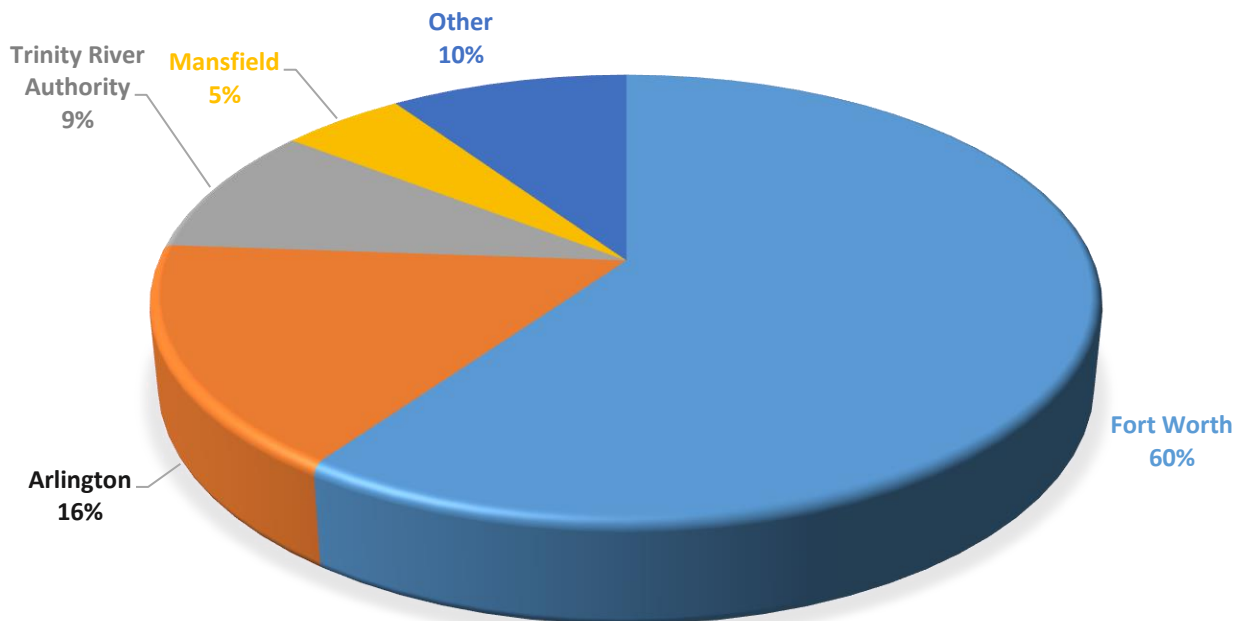
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Water Usage Projections

Each fiscal year, the primary 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 FY23 increased 1 million gallons from FY22. The District's four primary customers account for 90% of budgeted water sales for FY23.

Gallonge (000'S)	FY22 Budgeted Water Sales	FY23 Budgeted Water Sales	Variance	% Change
Fort Worth	69,513,944	70,262,163	748,219	1.08%
Arlington	20,003,136	19,206,381	(796,755)	-3.98%
Trinity River Authority	10,815,437	10,958,419	142,982	1.32%
Mansfield	5,254,197	5,869,707	615,510	11.71%
Other	10,904,250	11,200,000	295,750	2.71%
Total Gallonge (000's)	116,490,964	117,496,670	1,005,706	0.86%

FY23 Budgeted Water Usage by Customer



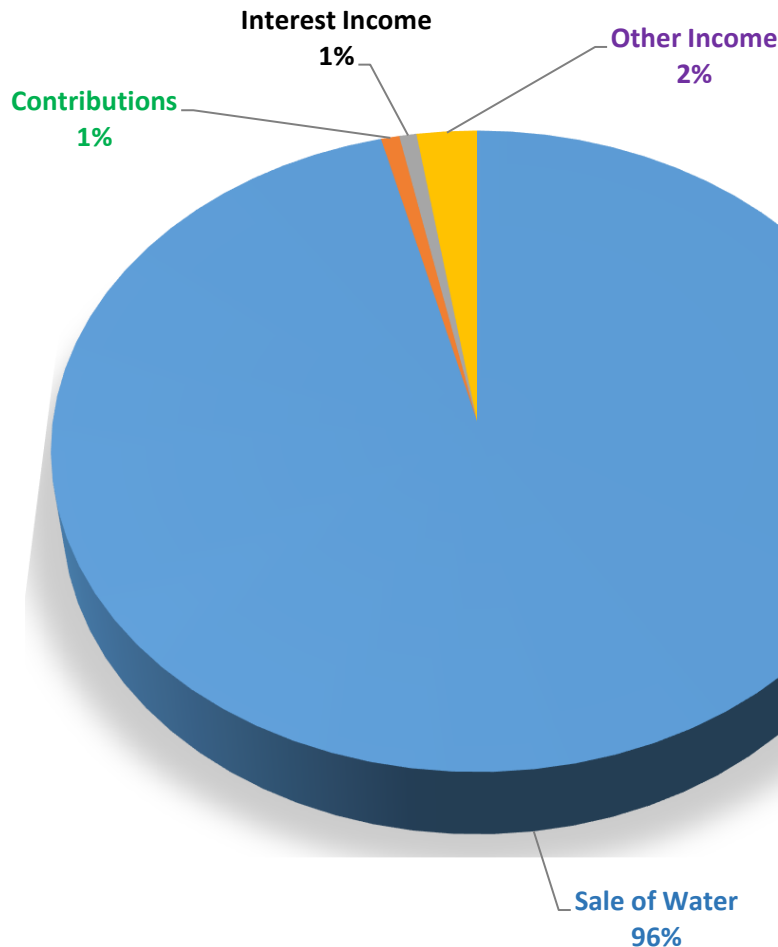
Revenue Fund - Revenues

Summary 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 4% of the budgeted revenues for FY23. These individual components will be discussed in more detail on the following pages.

Sources	FY21 Actuals	FY22 Approved	FY23 Proposed	Variance	% Change
		Budget	Budget		
Sale of Water	\$ 136,586,934	\$146,199,243	\$ 151,795,319	\$ 5,596,076	3.83%
Contributions	\$ 1,142,129	\$ 1,205,668	\$ 1,205,668	\$ -	0.00%
Interest Income	\$ 1,135,827	\$ 910,000	\$ 1,125,000	\$ 215,000	23.63%
Other Income	\$ 3,235,686	\$ 6,555,077	\$ 3,948,906	\$ (2,606,171)	-39.76%
Total	\$ 142,100,576	\$ 154,869,988	\$ 158,074,893	\$ 3,204,905	2.07%

FY23 Budgeted Revenues

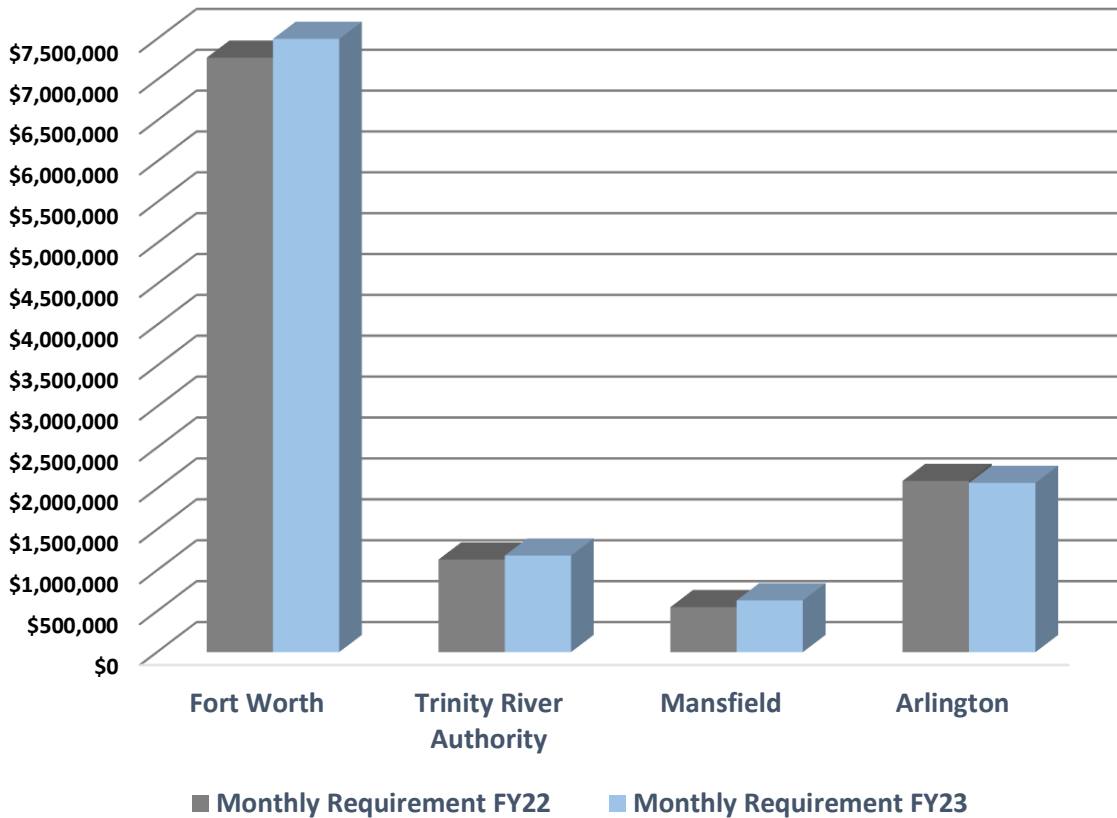


Sale of Water

Customer Monthly Payments

	Fort Worth	Trinity River Authority	Mansfield	Arlington
FY 2023 Estimated Usage (000's)	70,262,163	10,958,419	5,869,707	19,206,381
FY 2023 Rate per 1,000 Gallons	\$1.29191	\$1.29191	\$1.29191	\$1.29191
FY23 Budgeted Revenue Requirement	\$90,772,509	\$14,157,310	\$7,583,143	\$24,812,948
FY22 Budgeted Revenue Requirement	\$87,241,840	\$13,573,659	\$6,594,156	\$25,104,465
Monthly Requirement FY23	\$7,564,376	\$1,179,776	\$631,929	\$2,067,746
Monthly Requirement FY22	\$7,270,153	\$1,131,138	\$549,513	\$2,092,039

Budgeted Customer Monthly Payments



Contributions

Contribution revenues help off-set the District's expenses for the Water Conservation Program. In FY23 these revenues will account for \$1.2 million in income for the Revenue Fund. A closer look at these program's expense budgets will be shown in the expenditures section on the Water Conservation Program Detail page.

Both the City of Dallas and North Texas Municipal Water District (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 \$20 thousand to the Weekly Watering program.

Water Conservation Program Revenues	FY22 Approved Budget	FY23 Proposed Budget
Public Outreach & Education - City of Dallas	\$ 583,334	\$ 583,334
Public Outreach & Education - NTMWD	\$ 583,334	\$ 583,334
Weekly Watering Program - City of Dallas	\$ 20,000	\$ 20,000
Regional Symposiums - City of Dallas	\$ 5,000	\$ 5,000
Regional Symposiums - NTMWD	\$ 5,000	\$ 5,000
Regional Symposiums - UTWD	\$ 5,000	\$ 5,000
Regional Symposiums Registration Fees	\$ 4,000	\$ 4,000
Total Water Conservation Program Revenues	\$ 1,205,668	\$ 1,205,668



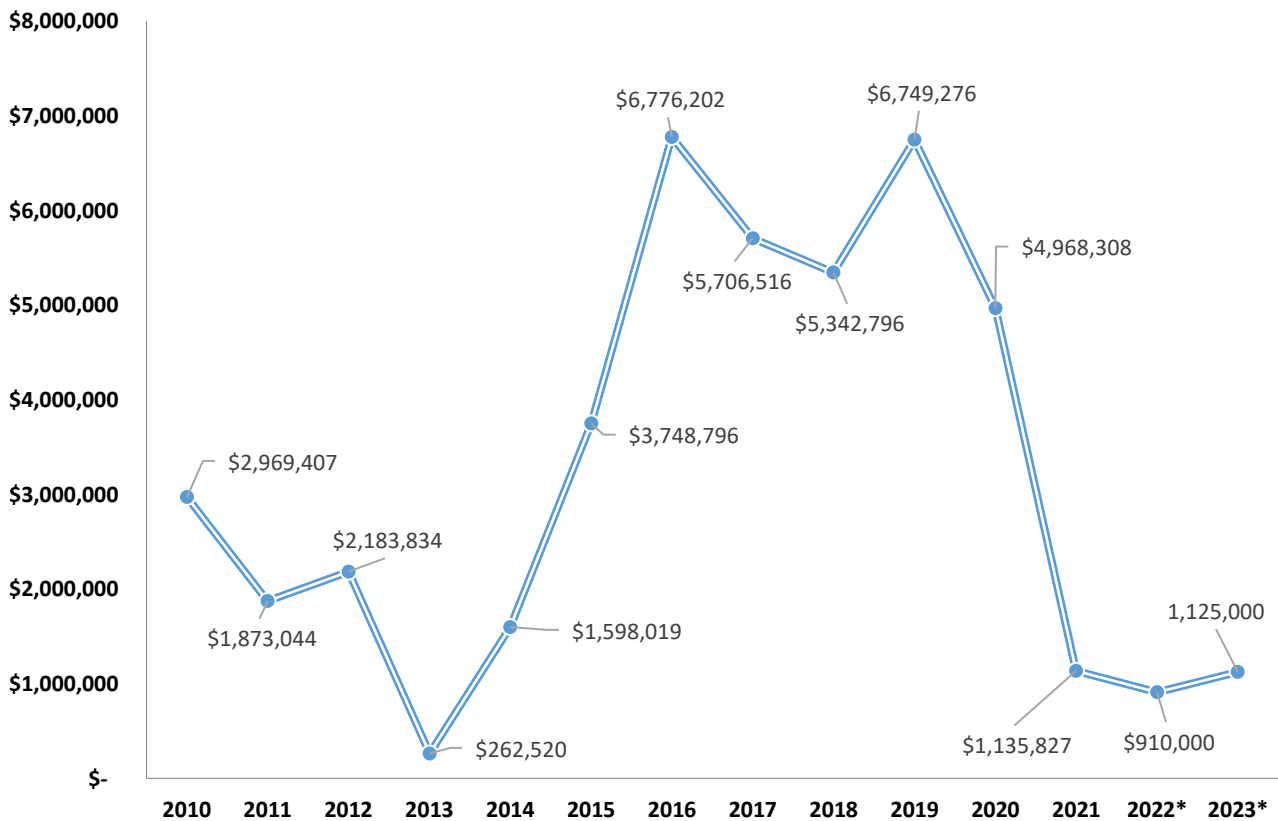
Interest Income

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.

The District’s Extendible Commercial Paper Bond program allows the District to delay issuing long term bonds until project cashflows are known, therefore more accurate. This also leads to faster spend down of long-term bond proceeds, which will therefore not be available to earn as much interest income as in the past. 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 FY20, the District has decreased the budgeted Interest Income to account for that change in debt issuance practices.

Additionally, interest rates have been low for a few years; however, with the uptake in current interest rates, the District has increased the expected interest income for FY23. If interest rates continue to rise, the District will take that into consideration for future budgets.

The graph below illustrates the actual interest earned on investments for the past 12 years and budgeted interest income for FY22 and FY23.



*Budgeted Interest Income

Other Income

The largest decrease in Other Income in FY23 is due to the reduction in excess reserves. In FY22 \$3.3 million was available due to a decrease in debt service requirements, but that will not be available in FY23. Dallas Water Utility increased due to an increase in IPL sections coming online leading to more maintenance costs shared with Dallas.

Sources	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance
Excess Reserve Funds	\$ -	\$ 3,323,130	\$ -	\$ (3,323,130)
Dallas Water Utility	\$ 1,563,041	\$ 2,189,902	\$ 2,798,048	\$ 608,146
Other Income	\$ 1,071,999	\$ 542,045	\$ 630,858	\$ 88,813
Other Water Sales - not based on rate	\$ 600,646	\$ 500,000	\$ 520,000	\$ 20,000
Total	\$ 3,235,686	\$ 6,555,077	\$ 3,948,906	\$ (2,606,171)



Integrated Pipeline ribbon cutting ceremony on May 20, 2022.

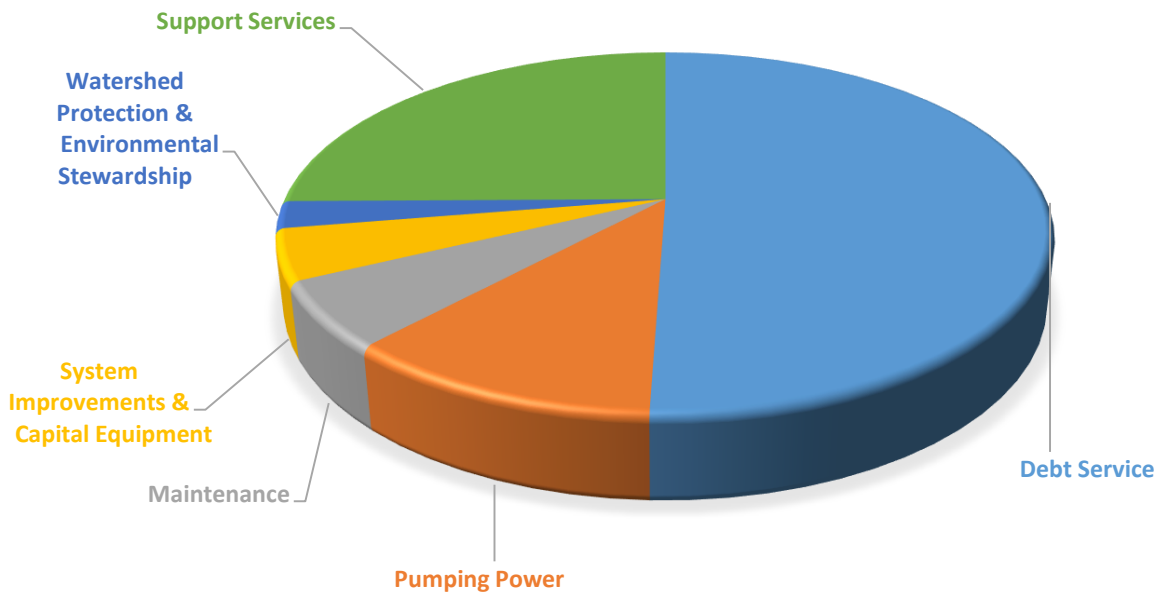
Revenue Fund - Expenditures

Summary Expenditure Budget

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 Conservation 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 chart below illustrates the proposed FY23 expenditure budget in each area.

Budget Categories	FY22 Approved		FY23 Proposed		Variance	% Change
	FY21 Actuals	Budget	Budget	Budget		
Debt Service	\$ 76,157,954	\$ 79,901,067	\$ 79,901,067	\$ -	0.00%	
Pumping Power	\$ 14,523,017	\$ 18,000,000	\$ 18,000,000	\$ -	0.00%	
Maintenance	\$ 5,484,386	\$ 7,807,562	\$ 9,304,243	\$ 1,496,681	19.17%	
System Improvements & Capital Equipment	\$ 8,056,693	\$ 5,256,060	\$ 7,227,473	\$ 1,971,413	37.51%	
Watershed Protection & Environmental Stewardship	\$ 2,892,724	\$ 3,936,815	\$ 3,841,147	\$ (95,668)	-2.43%	
Support Services	\$ 34,985,802	\$ 39,968,484	\$ 39,800,963	\$ (167,521)	-0.42%	
Total	\$ 142,100,576	\$ 154,869,988	\$ 158,074,893	\$ 3,204,905	2.07%	

FY23 PROPOSED BUDGET



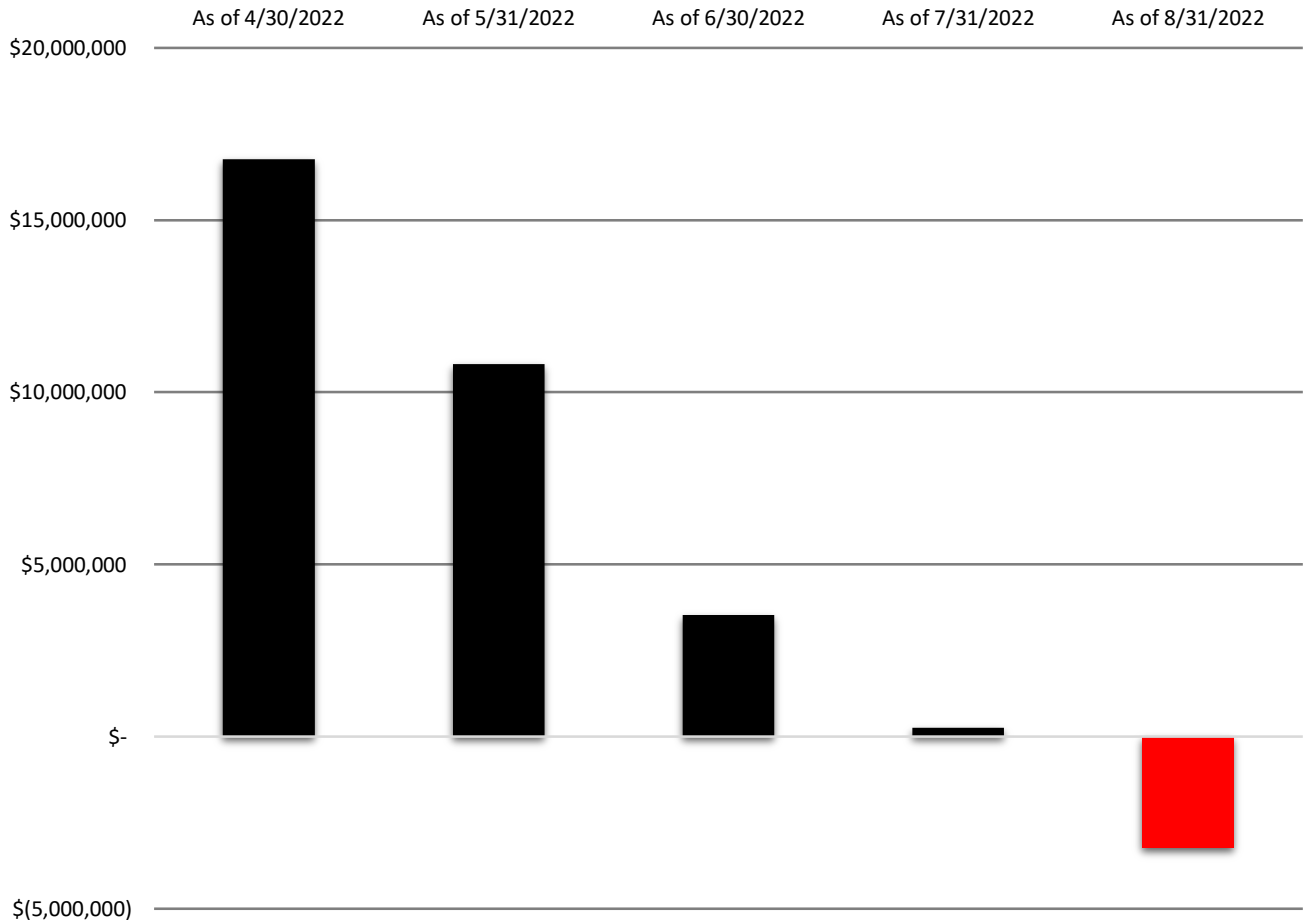
Debt Service Budget

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.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	%Change
Bonds Payable	\$ 45,370,000	\$ 40,560,000	\$ 40,395,000	\$ (165,000)	-0.41%
Interest Expense	\$ 30,757,139	\$ 39,314,717	\$ 39,480,767	\$ 166,050	0.42%
Bond Issuance Expense	\$ 25,000	\$ 20,000	\$ 20,000	\$ -	0.00%
Paying Agent Fees	\$ 5,815	\$ 6,350	\$ 5,300	\$ (1,050)	-16.54%
Total Debt Service	\$ 76,157,954	\$ 79,901,067	\$ 79,901,067	\$ -	0.00%

The graph below illustrates the declining cashflows leading up to the bond issuance in August 2022.

Remaining Bond Cashflows

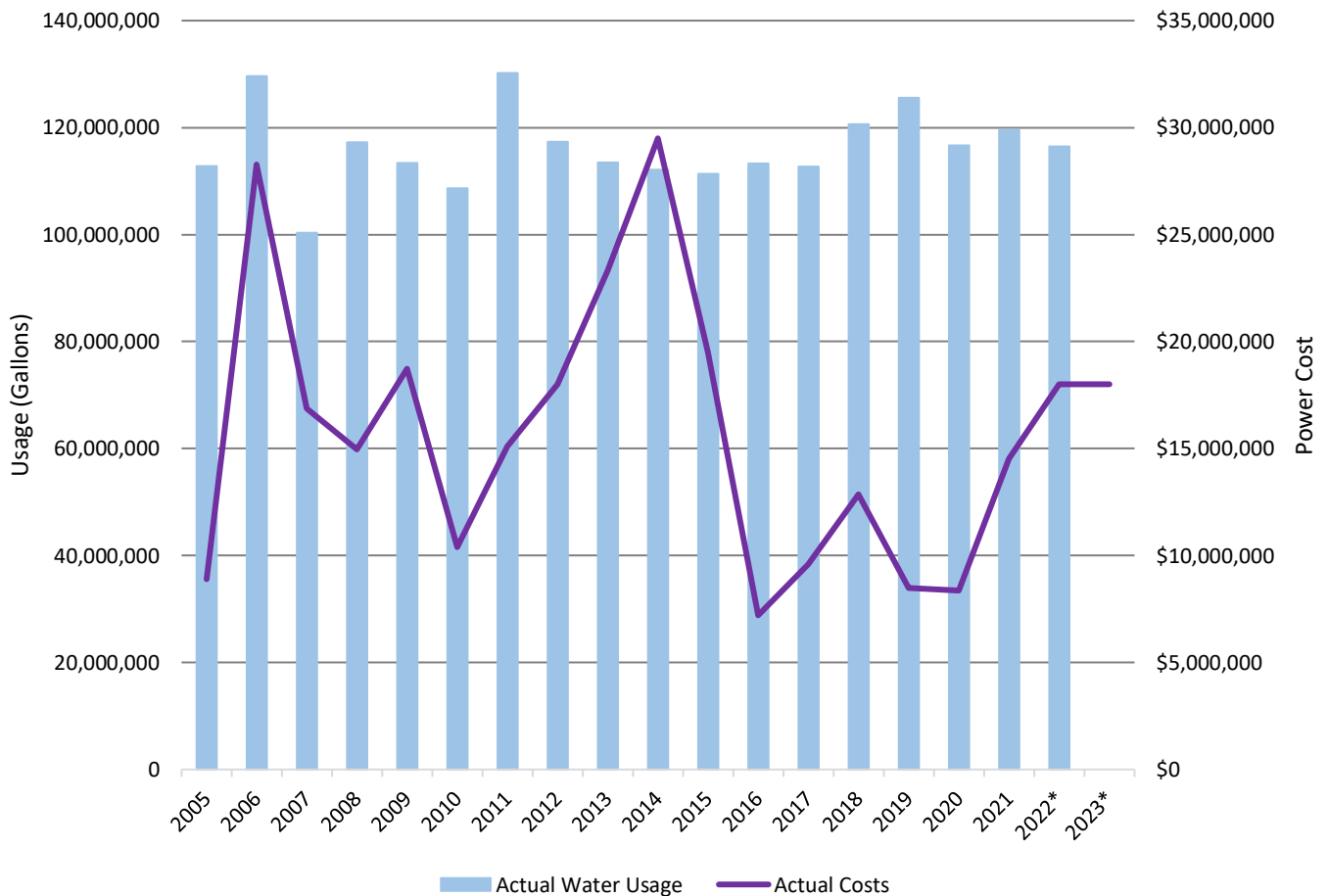


Pumping Power Budget

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 water 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 \$23 million annually. In FY19 the budget was reduced to \$20 million annually due to significantly low power cost years as well as additional model information. In FY21 the budget was reduced again to \$18 million annually, as the impact of the Integrated Pipeline on pumping power is expected to decrease costs.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance
Pumping Power	\$ 14,523,017	\$ 18,000,000	\$ 18,000,000	\$ -

Power Cost vs Usage



*Budgeted Water Usage and Pumping Power Costs for FY22 and FY23

Maintenance Budget

The Water Supply Maintenance budget contains the costs to maintain the water supply system. The large increases for FY23 are due to fuel and pipe cost inflation, additional maintenance budgets for IPL locations as the IPL comes online, and an increase in USACE Corp of Engineers budget for O&M cost share for Benbrook Water Supply Storage.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Pipeline & Pump Station	\$ 2,194,095	\$ 3,782,800	\$ 4,596,015	\$ 813,215	21.50%
Facilities & Grounds Maintenance	\$ 1,360,032	\$ 1,918,733	\$ 2,227,204	\$ 308,471	16.08%
Equipment & Fleet	\$ 694,809	\$ 786,341	\$ 807,319	\$ 20,978	2.67%
Maintenance Support	\$ 464,068	\$ 624,688	\$ 874,340	\$ 249,652	39.96%
Benbrook Reservoir O&M	\$ 565,364	\$ 515,000	\$ 604,365	\$ 89,365	17.35%
Stream Gauging Stations	\$ 206,018	\$ 180,000	\$ 195,000	\$ 15,000	8.33%
Total	\$ 5,484,386	\$ 7,807,562	\$ 9,304,243	\$ 1,496,681	19.17%



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 FY23 Pipeline and Pump station budget includes a \$850 thousand budget to replace pipe segments.

System Improvements and Capital Equipment 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 FY23.

One of the largest system projects is the System Operating Permit Evaluation which will evaluate the feasibility of pursuing a system operations permit for the overall TRWD system. A system operations permit would provide us additional operational flexibility, and has the potential to result in an overall increase in system yield.

Variable frequency drives run the pump motors and are crucial to the pump stations, and their manufacturer is requiring upgrades for continued support of the drives.

	FY23 Proposed Budget
<u>System Study & Design Projects:</u>	
System Operating Permit Evaluation	\$ 675,000
NTMWD/DWU Interconnection Optimization Study	\$ 400,000
Integrated Water Supply Plan	\$ 175,000
Two-Way Radio Expansion	\$ 175,000
Pipeline Crossing Of Trinity Study with Fluvial Geomorphologist	\$ 100,000
Pipeline Global Information Systems Development	\$ 100,000
Sustainability Facilitation	\$ 100,000
Miscellaneous System Study & Design Projects	\$ 466,600
	\$ 2,191,600
<u>Pump & Valve Projects:</u>	
Variable Frequency Drive Upgrades	\$ 785,000
Fuel System Upgrades	\$ 467,000
Control Valve Actuator Conversion at RC3L	\$ 450,000
Flow Control Valve For 5X15 Interconnect	\$ 200,000
Replace Suction And Discharge Butterfly Valve At RC3L	\$ 175,000
Sulphur River Basin Study And Initiation	\$ 160,000
Upgrade To 6500 Vibration Unit At RH2	\$ 145,000
108' Butterfly Valve for Isolation At RC2H	\$ 110,000
Miscellaneous Pump & Valve Projects	\$ 75,000
	\$ 2,567,000
<u>Construction & Repair Projects:</u>	
Richland Chambers Embankment PH1	\$ 500,000
Rip Rap For Richland Chambers Wetlands	\$ 350,000
Richland Chambers Road Repairs	\$ 300,000
New Richland Chambers Water Quality Building	\$ 300,000
Benbrook Pump Stations Backup Power Preliminary Design	\$ 175,000
Miscellaneous Construction & Repair Projects	\$ 150,000
	\$ 1,775,000
<u>Capital Equipment:</u>	
Miscellaneous Capital Equipment	\$ 422,800
Rebudgeted from FY22	\$ 271,073
	\$ 693,873
Total	\$ 7,227,473

The District considers purchases of \$10 thousand or greater for a piece of machinery or equipment to be capital equipment. Due to shortages in FY22, \$271,073 of capital equipment will not be received in FY22 and has been rebudgeted in FY23.

Watershed Protection and Environmental Stewardship Budget

From ensuring the best water quality in our reservoirs through pollution campaigns and Reservoir Cleanups to our Water Conservation 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.

TRWD is moving in a new direction and partnering with the City of Fort Worth to implement a structure that will be used to collect trash from the Trinity River in Fort Worth. The campaign encourages cleaner waterways in the community by making the public aware of this device and the amount trash that flows down the river everyday, especially after heavy rain events. These funds were previously being used in the Reverse Litter campaign with Fort Worth and Dallas, and the new campaign will have less expenses overall.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Water Conservation Program*	\$ 2,310,931	\$ 2,879,502	\$ 2,895,502	\$ 16,000	0.56%
Watershed Protection	\$ 211,120	\$ 453,453	\$ 415,685	\$ (37,768)	-8.33%
Environmental	\$ 356,243	\$ 396,860	\$ 442,460	\$ 45,600	11.49%
Pollution Campaign	\$ 3,709	\$ 160,000	\$ 40,500	\$ (119,500)	-74.69%
Reservoir Cleanups	\$ 10,721	\$ 47,000	\$ 47,000	\$ -	0.00%
Total	\$ 2,892,724	\$ 3,936,815	\$ 3,841,147	\$ (95,668)	-2.43%

* See next page for Water Conservation Program details.



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

Water Conservation Program Detail:

Program Area	FY22	FY23	FY23	TRWD Portion
	Expenditures	Expenditures	Contributions	
"Water is Awesome" Campaign	\$ 2,050,002	\$ 2,050,002	\$ 1,166,668	\$ 883,334
Campaign Programs (waterwise, weekly watering, etc.)	\$ 410,000	\$ 416,000	\$ 20,000	\$ 396,000
School Education Program	\$ 313,000	\$ 313,000	\$ -	\$ 313,000
Video and Promotional Items	\$ 45,000	\$ 50,000	\$ -	\$ 50,000
Gardening & Landscape Workshops	\$ 31,500	\$ 36,500	\$ -	\$ 36,500
Regional Symposiums	\$ 24,000	\$ 24,000	\$ 19,000	\$ 5,000
Program Exhibits	\$ 6,000	\$ 6,000	\$ -	\$ 6,000
Total	\$ 2,879,502	\$ 2,895,502	\$ 1,205,668	\$ 1,689,834

The Water Conservation Program has enabled TRWD to defer new supplies and capital costs. The North Texas Municipal Water District (NTMWD) Dallas, and TRWD have a partnership, unifying the awareness campaign messaging and media buys. With this combined effort the District has been able to increase our reach to the public through advertising and focus more on school education programs.

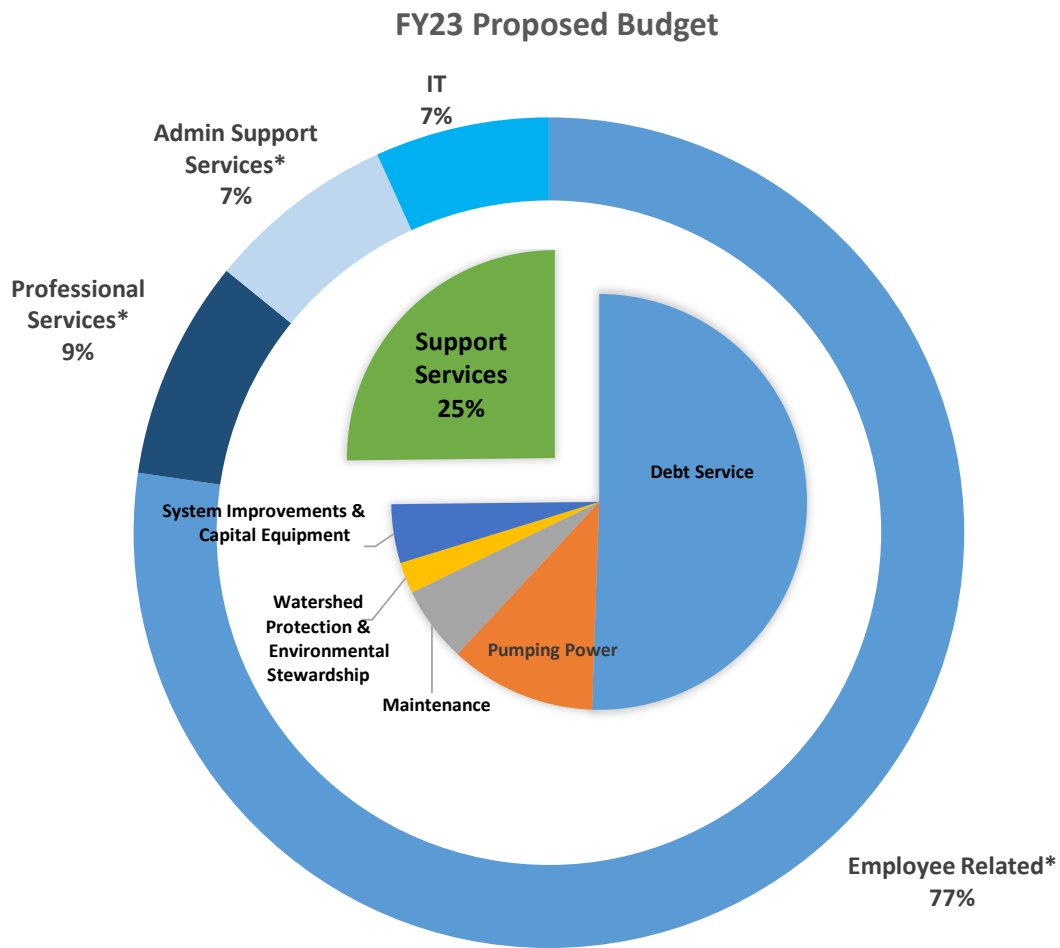


Support Services Budget

The support services budget is 25% of our total revenue fund budget and consists of expenditures for services that support the District overall, including personnel and administrative costs. Employee related budgets make up 77% of the overall support services budget for FY23. Additional details of each of these areas will be discussed on the following pages.

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Employee Related*	\$ 26,757,722	\$ 30,232,594	\$ 30,769,145	\$ 536,551	1.77%
Professional Services*	\$ 3,022,623	\$ 3,754,400	\$ 3,403,783	\$ (350,617)	-9.34%
Admin Support Services*	\$ 3,104,397	\$ 3,261,789	\$ 2,927,803	\$ (333,986)	-10.24%
IT	\$ 2,101,060	\$ 2,719,701	\$ 2,700,232	\$ (19,469)	-0.72%
Total Support Services	\$ 34,985,802	\$ 39,968,484	\$ 39,800,963	\$ (167,521)	-0.42%

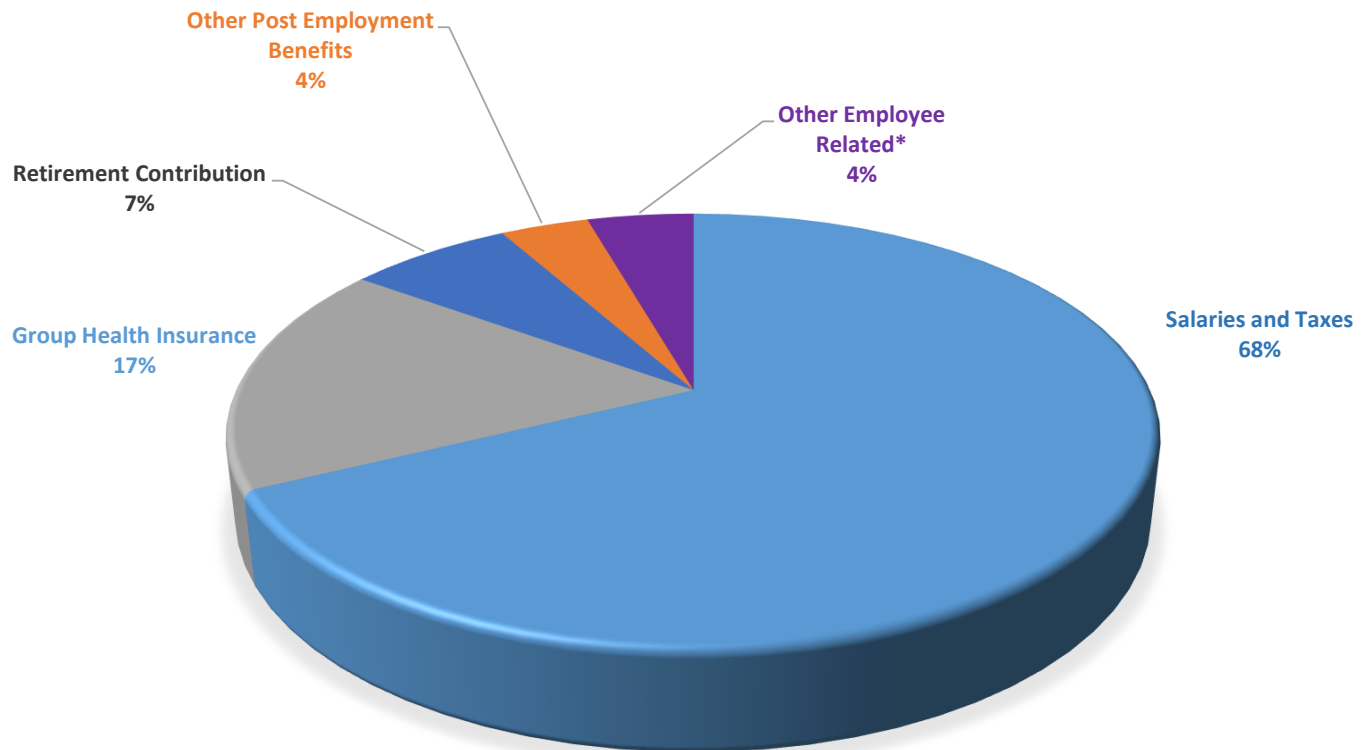
* Additional details on following pages.



Employee Related Detail:

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Salaries and Taxes	\$ 18,594,978	\$ 19,830,603	\$ 20,837,175	\$ 1,006,572	5.08%
Group Health Insurance	\$ 4,176,089	\$ 5,737,673	\$ 5,319,896	\$ (417,777)	-7.28%
Retirement Contribution	\$ 2,091,186	\$ 2,134,158	\$ 2,111,748	\$ (22,410)	-1.05%
Other Post Employment	\$ 1,116,083	\$ 1,110,769	\$ 1,136,102	\$ 25,333	2.28%
Other Employee Related*	\$ 779,386	\$ 1,419,391	\$ 1,364,224	\$ (55,167)	-3.89%
Total	\$ 26,757,722	\$ 30,232,594	\$ 30,769,145	\$ 536,551	1.77%

* Other employee related budgets include business and travel, education, and the employee wellness program.

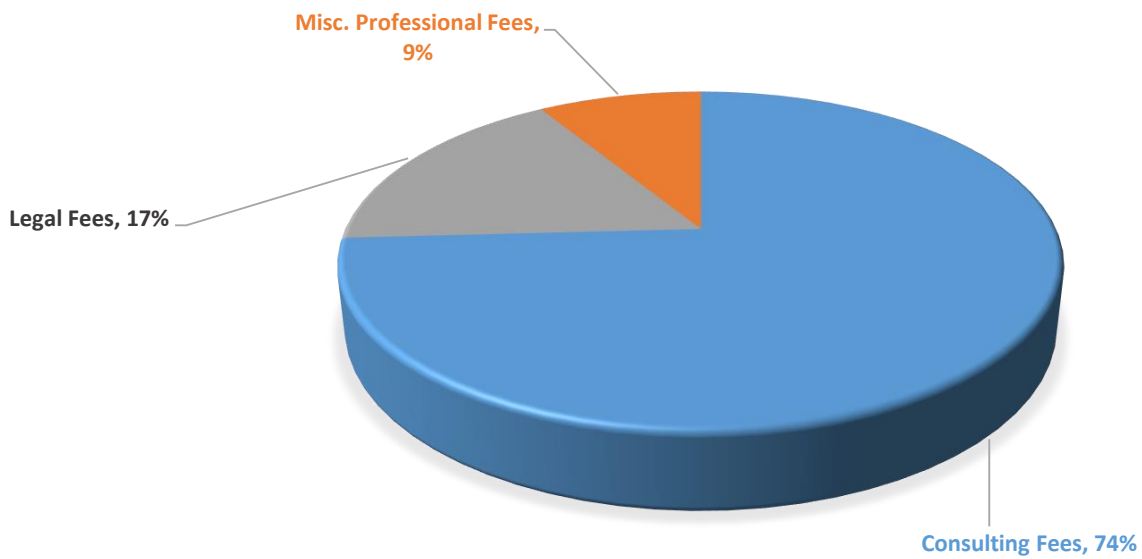


Total employee related expenses budgeted for FY23 have increased 1.77% from the prior year’s budget.

In 2023, a change in allocation percentages resulted in less expenses being allocated to the Revenue Fund. Additionally, health insurance dropped in FY23 due to the combination of the allocation shift and employee changes in coverage tiers. However, the annual percentage budgeted to cover items such as raises, promotions, and market adjustments has been increased from 3% to 6% due to the economic and recruiting challenges occurring across our industry resulting in a net calculation of the 1.77% increase.

Professional Services Detail:

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Consulting Fees	\$ 2,393,478	\$ 2,798,255	\$ 2,523,757	\$ (274,498)	-9.81%
Legal Fees	\$ 441,017	\$ 634,200	\$ 581,800	\$ (52,400)	-8.26%
Misc. Professional Fees	\$ 188,128	\$ 321,945	\$ 298,226	\$ (23,719)	-7.37%
Total	\$ 3,022,623	\$ 3,754,400	\$ 3,403,783	\$ (350,617)	-9.34%

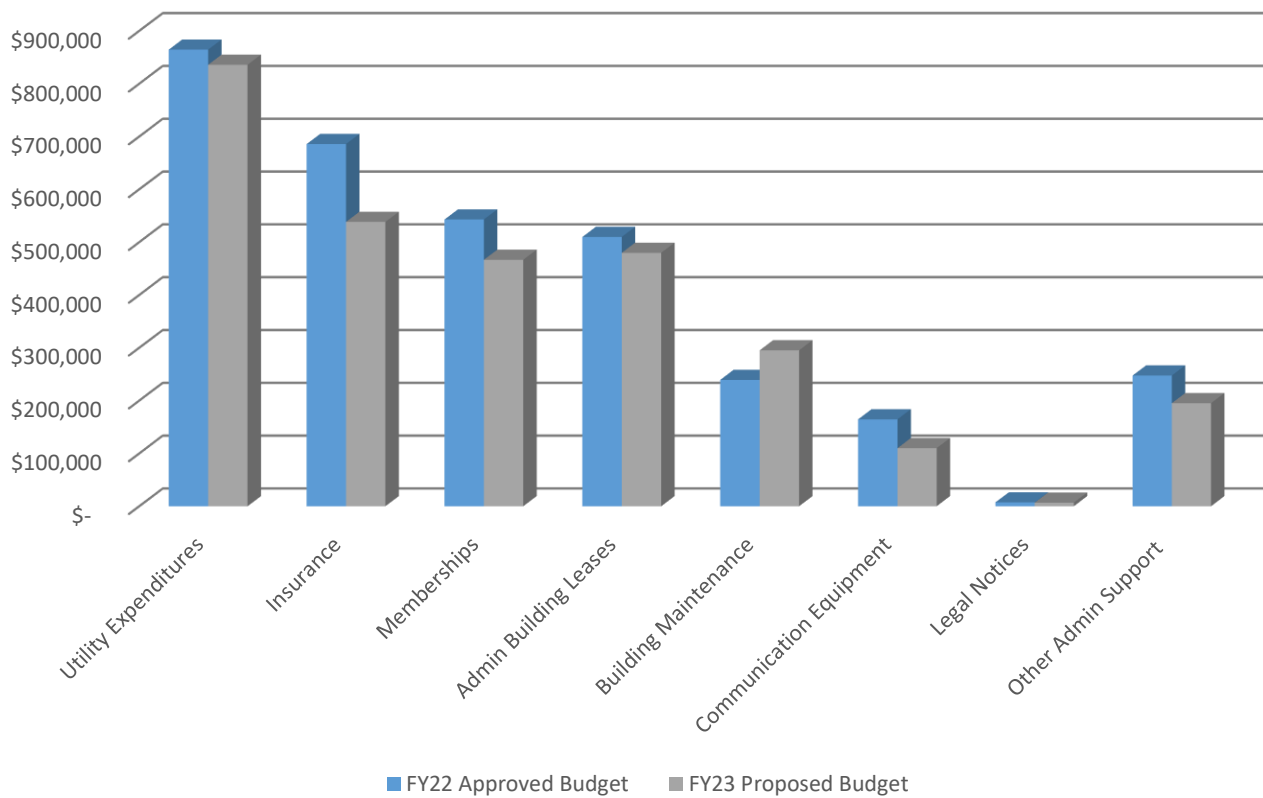


Overall the professional services budget decreased due to the percentage allocation of overall District support costs to the Revenue Fund decreasing in FY23. The largest professional services budget is for consulting which includes technology support, cybersecurity, pipe testing, etc.

Administrative Support Services Detail:

	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Utility Expenditures	\$ 684,478	\$ 864,539	\$ 835,776	\$ (28,763)	-3.33%
Insurance	\$ 581,745	\$ 685,745	\$ 538,413	\$ (147,332)	-21.48%
Memberships	\$ 546,190	\$ 542,943	\$ 466,645	\$ (76,298)	-14.05%
Admin Building Leases	\$ 558,107	\$ 509,916	\$ 479,796	\$ (30,120)	-5.91%
Building Maintenance	\$ 253,212	\$ 239,239	\$ 295,178	\$ 55,939	23.38%
Communication Equipment	\$ 181,998	\$ 164,510	\$ 109,945	\$ (54,565)	-33.17%
Legal Notices	\$ 6,978	\$ 7,340	\$ 6,860	\$ (480)	-6.54%
Other Admin Support	\$ 291,689	\$ 247,557	\$ 195,190	\$ (52,367)	-21.15%
Total	\$ 3,104,397	\$ 3,261,789	\$ 2,927,803	\$ (333,986)	-10.24%

Budget Comparison FY22 to FY23



The Administrative Support Services budget consists of overhead type expenditures. Overall these expenditures decreased due to the percentage allocation of overall District support costs to the Revenue Fund decreasing in FY23. Building maintenance increased due to needed repairs on the roadways, parking lot, and foundation as well as maintaining the landscape for water conservation demonstrations.

Revenue Fund FY23 Budget

Revenues	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change	Notes*
Sale of Water	\$ 146,199,243	\$ 151,795,319	\$ 5,596,076	3.83%	
Contributions	\$ 1,205,668	\$ 1,205,668	\$ -	0.00%	
Interest Income	\$ 910,000	\$ 1,125,000	\$ 215,000	23.63%	1
Excess Reserve Funds	\$ 3,323,130	\$ -	\$ (3,323,130)	-100.00%	2
Dallas Water Utility	\$ 2,189,902	\$ 2,798,048	\$ 608,146	27.77%	3
Other Income	\$ 542,045	\$ 630,858	\$ 88,813	16.38%	
Other Water Sales	\$ 500,000	\$ 520,000	\$ 20,000	4.00%	
Total Revenues	\$ 154,869,988	\$ 158,074,893	\$ 3,204,905	2.07%	

Expenditures	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change	Notes*
Debt Service	\$ 79,901,067	\$ 79,901,067	\$ -	0.00%	
Pumping Power	\$ 18,000,000	\$ 18,000,000	\$ -	0.00%	
<u>Maintenance</u>					
Pipeline & Pump Station	\$ 3,782,800	\$ 4,596,015	\$ 813,215	21.50%	4
Facilities & Grounds Maintenance	\$ 1,918,733	\$ 2,227,204	\$ 308,471	16.08%	5
Equipment & Fleet	\$ 786,341	\$ 807,319	\$ 20,978	2.67%	
Maintenance Support	\$ 624,688	\$ 874,340	\$ 249,652	39.96%	6
Benbrook Reservoir O&M	\$ 515,000	\$ 604,365	\$ 89,365	17.35%	7
Stream Gauging Stations	\$ 180,000	\$ 195,000	\$ 15,000	8.33%	
Total Maintenance	\$ 7,807,562	\$ 9,304,243	\$ 1,496,681	19.17%	
System Improvements & Capital Equipment	\$ 5,256,060	\$ 7,227,473	\$ 1,971,413	37.51%	8
<u>Watershed Protection and Environmental Stewardship</u>					
Water Conservation Program	\$ 2,879,502	\$ 2,895,502	\$ 16,000	0.56%	
Watershed Protection	\$ 453,453	\$ 415,685	\$ (37,768)	-8.33%	
Environmental	\$ 396,860	\$ 442,460	\$ 45,600	11.49%	
Pollution Campaign	\$ 160,000	\$ 40,500	\$ (119,500)	-74.69%	9
Reservoir Cleanups	\$ 47,000	\$ 47,000	\$ -	0.00%	
Total Watershed Protection & Environmental Stewardship	\$ 3,936,815	\$ 3,841,147	\$ (95,668)	-2.43%	
<u>Support Services</u>					
Employee Related	\$ 30,232,594	\$ 30,769,145	\$ 536,551	1.77%	
Professional Services	\$ 3,754,400	\$ 3,403,783	\$ (350,617)	-9.34%	
Admin Support Services	\$ 3,261,789	\$ 2,927,803	\$ (333,986)	-10.24%	
IT	\$ 2,719,701	\$ 2,700,232	\$ (19,469)	-0.72%	
Total Support Services	\$ 39,968,484	\$ 39,800,963	\$ (167,521)	-0.42%	
Total Expenditures	\$ 154,869,988	\$ 158,074,893	\$ 3,204,905	2.07%	

*See explanations for significant variances on next page

Variance Explanations

1 Interest Income

With the uptake in current interest rates, the District has conservatively increased the expected interest income for FY23.

2 Excess Reserve Funds

In FY22 \$3.3 million was available due to a decrease in debt service requirements, but that will not be available in FY23.

3 Dallas Water Utility

Reflects the increase in IPL sections coming online leading to more maintenance costs shared with Dallas.

4 Pipeline & Pump Stations

Increase is due to inflation of pipe cost.

5 Facilities & Grounds Maintenance

Increase is due to additional maintenance for IPL locations as the IPL comes online.

6 Maintenance Support

Increase is due to inflation of fuel cost.

7 Benbrook Reservoir O&M

Increase due to USACE O&M Budget increase. TRWD pays a proportionate share of that budget for water in Benbrook Reservoir.

8 System Improvements

Increase includes a system operating permit evaluation, manufacturer required variable frequency drive upgrade, and fuel system upgrades.

9 Pollution Campaign

Decrease is due to the campaign taking a new direction which is expected to be less expensive overall.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 7

DATE: September 20, 2022

SUBJECT: Consider Approval of Fiscal Year 2023 Special Projects/Contingency Fund Budget

FUNDING: Fiscal Year 2023 Special Projects/Contingency Fund

RECOMMENDATION:

Management recommends approval of the proposed Fiscal Year 2023 Special Projects/Contingency Fund Budgeted expenditures of \$9,491,815.

DISCUSSION:

The proposed Special Projects/Contingency Fund Budget consists of net recreation expenditures of \$1,731,262, special project expenditures of \$450,000, and debt service expenditures for the Panther Island/Central City project of \$7,310,553. These expenditures are offset by expected revenues for oil and gas royalties of \$7,000,000, interest and other income of \$1,036,930, and TIF revenues of \$7,310,553. Overall, the Special Projects/Contingency Fund is expected to have an increase to equity for future projects of \$5,855,668.

The Board of Directors met on July 26, 2022 for a budget workshop and no changes have been made since that time.

To provide more clarity, a summary of all budgets being approved for FY2023 has been added and can be seen on pages 1 through 3 of the attached Special Projects/Contingency Fund Budget Book. Please see attached the Special Projects/Contingency Fund Budget Book for further details.

Submitted By:

Sandy Newby
Chief Financial Officer



Fiscal Year 2023
Proposed
Special Projects/**Contingency Fund**
Operating Budget

Board Meeting
September 21, 2022

Summarized FY23 Proposed Revenue Budgets

Revenues	Revenue Fund FY23	General Fund FY23	Special Projects/ Contingency Fund FY23	Total Revenues
	Proposed Budget	Proposed Budget	Proposed Budget	
Sale of Water	\$ 151,795,319	\$ -	\$ -	\$ 151,795,319
Taxes	\$ -	\$ 24,600,000	\$ -	\$ 24,600,000
TIF Revenues	\$ -	\$ -	\$ 7,310,553	\$ 7,310,553
Oil and Gas Revenues	\$ -	\$ -	\$ 7,000,000	\$ 7,000,000
Excess Reserve Funds	\$ -	\$ -	\$ -	\$ -
Dallas Water Utility	\$ 2,798,048	\$ -	\$ -	\$ 2,798,048
Contributions	\$ 1,205,668	\$ -	\$ -	\$ 1,205,668
Interest Income	\$ 1,125,000	\$ 200,000	\$ 150,000	\$ 1,475,000
Other Water Sales	\$ 520,000	\$ -	\$ -	\$ 520,000
Other Income	\$ 630,858	\$ -	\$ 886,930	\$ 1,517,787
Total Revenues	\$ 158,074,893	\$ 24,800,000	\$ 15,347,483	\$ 198,222,376

Summarized FY23 Proposed Expenditure Budgets

Expenditures	Revenue Fund FY23	General Fund FY23	Special Projects/ Contingency Fund FY23	Total Expenditures
	Proposed Budget	Proposed Budget	Proposed Budget	
Debt Service/Project Costs	\$ 79,901,067	\$ -	\$ 7,310,553	\$ 87,211,620
Pumping Power	\$ 18,000,000	\$ -	\$ -	\$ 18,000,000
<u>Maintenance</u>				\$ -
Pipeline & Pump Station	\$ 4,596,015	\$ -	\$ -	\$ 4,596,015
Facilities & Grounds Maintenance	\$ 2,227,204	\$ 818,030	\$ -	\$ 3,045,234
Equipment & Fleet	\$ 807,319	\$ 518,761	\$ -	\$ 1,326,080
Maintenance Support	\$ 874,340	\$ 569,390	\$ -	\$ 1,443,730
Benbrook Reservoir O&M	\$ 604,365	\$ -	\$ -	\$ 604,365
Stream Gauging Stations	\$ 195,000	\$ 252,000	\$ -	\$ 447,000
Total Maintenance	\$ 9,304,243	\$ 2,158,181	\$ -	\$ 11,462,424
<u>Watershed Protection, Environmental Stewardship and Public Outreach</u>				
Water Conservation Program	\$ 2,895,502	\$ -	\$ -	\$ 2,895,502
Watershed Protection	\$ 415,685	\$ -	\$ -	\$ 415,685
Environmental	\$ 442,460	\$ 66,275	\$ -	\$ 508,735
Pollution Campaign	\$ 40,500	\$ 9,500	\$ -	\$ 50,000
Reservoir Cleanups	\$ 47,000	\$ -	\$ -	\$ 47,000
Stormwater Program	\$ -	\$ 75,000	\$ -	\$ 75,000
Public Outreach	\$ -	\$ 92,527	\$ -	\$ 92,527
Total Watershed Protection & Environmental Stewardship	\$ 3,841,147	\$ 243,302	\$ -	\$ 4,084,449
System Improvements & Capital Equipment	\$ 7,227,473	\$ 3,138,736	\$ -	\$ 10,366,209
Net Recreation Expenses	\$ -	\$ -	\$ 1,731,262	\$ 1,731,262
Panther Island/Central City Canal Consulting	\$ -	\$ -	\$ 350,000	\$ 350,000
Panther Island Land Strategy	\$ -	\$ -	\$ 100,000	\$ 100,000
<u>Support Services</u>				
Employee Related	\$ 30,769,145	\$ 11,197,211	\$ -	\$ 41,966,357
Legal Fees	\$ -	\$ -	\$ -	\$ -
Professional Services	\$ 3,403,783	\$ 1,999,202	\$ -	\$ 5,402,985
Admin Support Services	\$ 2,927,803	\$ 2,790,944	\$ -	\$ 5,718,747
IT	\$ 2,700,232	\$ 839,786	\$ -	\$ 3,540,018
Total Support Services	\$ 39,800,963	\$ 16,827,144	\$ -	\$ 56,628,106
Total Expenditures	\$ 158,074,893	\$ 22,367,363	\$ 9,491,815	\$ 189,834,070

Revenue, General, and Special Projects/Contingency Funds

Full Time Equivalents Budgeted by Fund

	FY21	FY22	FY23
Revenue	256	250	243
General	92	91	86
Special Project/Contingency	9	10	9
Dallas	36	49	71
Total	393	400	409

Budgeted Expenditures Per Capita

	Revenue	General	Special Projects/ Contingency
Revenues Per Capita	\$ 73.74	\$ 55.90	\$ 34.59
Expenditures Per Capita	\$ 73.74	\$ 50.42	\$ 21.40

Population data is from 2021. General and Special Project/Contingency funds population is the TRWD taxing/voting district. Revenue Fund population is the service area which purchases water from TRWD.

Special Projects/Contingency Fund



Airfield Falls Trails

Special Projects/Contingency Fund

Special Projects/ Contingency Fiscal Year 2023 Budget Summary

Revenues Special Projects/Contingency Fund	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Oil and Gas Revenues	\$ 6,000,000	\$ 7,000,000	\$ 1,000,000	16.67%
Interest Income	\$ 100,000	\$ 150,000	\$ 50,000	50.00%
Other Income	\$ 832,246	\$ 886,930	\$ 54,684	6.57%
Total Revenues	\$ 6,932,246	\$ 8,036,930	\$ 1,104,684	15.94%

The Special Projects/Contingency Fund includes revenues from non-operating income, as well as net expenses for the Recreation mission and other capital projects. Additionally, TIF revenues for the Panther Island / Central City Project and related debt service are budgeted here. Details of the budget for non-operating income and expenses will be provided on the following pages.

Expenditures Special Projects/ Contingency Fund	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Capital Expenditures	\$ 787,500	\$ -	\$ (787,500)	-100.00%
Panther Island/Central City Canal Consulting	\$ 225,000	\$ 350,000	\$ 125,000	55.56%
Panther Island Land Strategy	\$ 100,000	\$ 100,000	\$ -	0.00%
Net Recreation Expenses	\$ 2,341,260	\$ 1,731,262	\$ (609,998)	-26.05%
Total Expenses	\$ 3,453,760	\$ 2,181,262	\$ (1,272,498)	-36.84%

TRWD will undertake a recreation master plan in FY23. Some expenses and events have been modified to increase alignment with the District's mission and to focus on the upcoming master plan.

Debt Service - Panther Island/ Central City Project	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
TIF Revenues	\$ 6,680,455	\$ 7,310,553	\$ 630,098	9.43%
Debt Service/Project Costs	\$ 6,680,455	\$ 7,310,553	\$ 630,098	9.43%
Net Change in Debt Services Equity	\$ -	\$ -	\$ -	100.00%

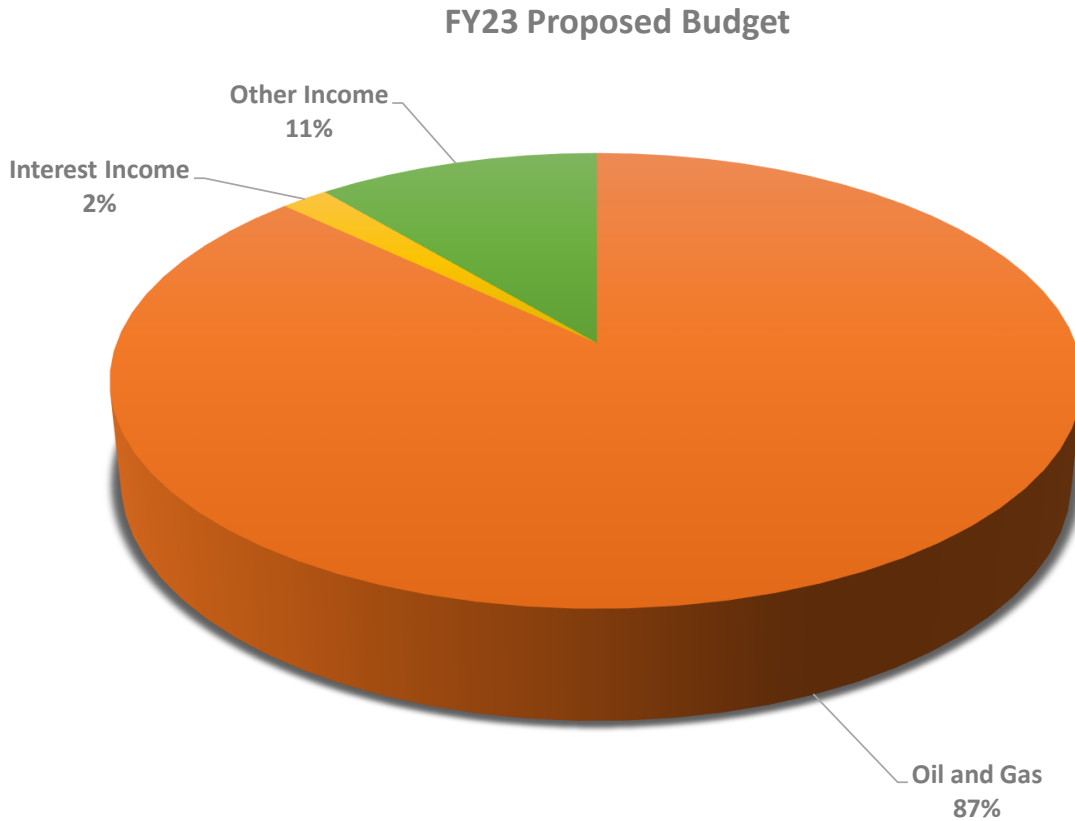
Budgeted Net Increase to Equity	\$ 3,478,486	\$ 5,855,668	\$ 2,377,182	68.34%
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Special Projects/ Contingency Fund - Revenues -

Summary Sources of Revenue

Beginning in fiscal year 2020, the District began setting aside future Oil and Gas revenues, interest income, and other revenues in a Special Projects/Contingency Fund.

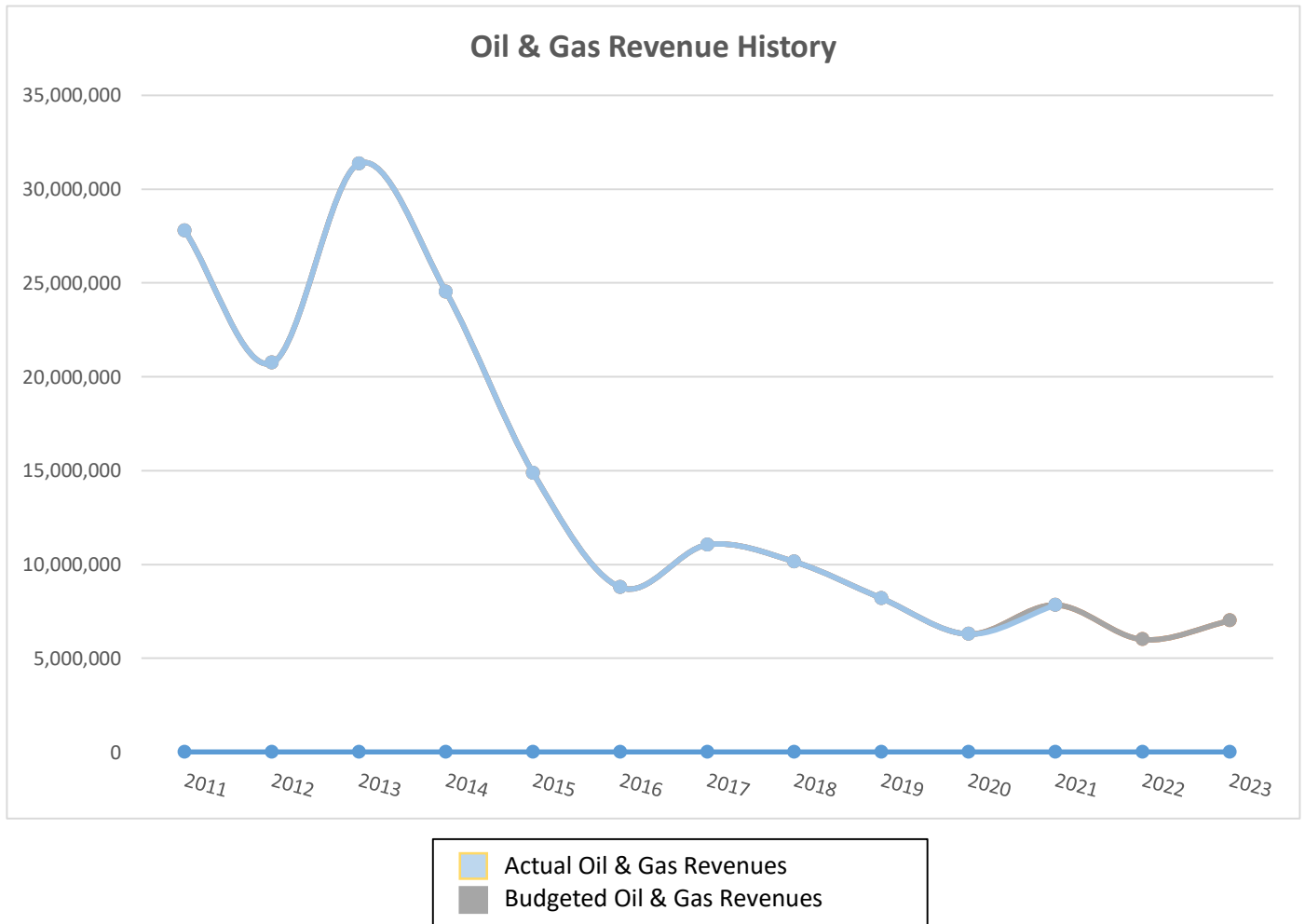
	FY21 Actuals	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Oil and Gas	\$ 7,843,251	\$ 6,000,000	\$ 7,000,000	\$ 1,000,000	16.67%
Interest Income	\$ 50,673	\$ 100,000	\$ 150,000	\$ 50,000	50.00%
Other Income	\$ 906,905	\$ 832,246	\$ 886,930	\$ 54,684	6.57%
Projects/Contingency Fund Revenues	\$ 8,800,829	\$ 6,932,246	\$ 8,036,930	\$ 1,104,684	15.94%



Special Projects/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 Eagle Mountain Lake. Due to uncertainty of oil and gas production, these revenues will be set aside as a contingency for future needs.

The chart below illustrates the actual revenues received from oil and gas royalties for the past 11 years with the budgeted revenues for FY22 and FY23. Prior to FY20 Oil and Gas revenues were in the General Fund; in FY20 they were moved to the Special Projects/Contingency Fund.



Special Projects/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. The portfolio has an overall average maturity of two years.

Interest rates have been low for a few years. However, with the uptake in current interest rates, the District has increased the expected interest income for FY23.

	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Interest Income	\$ 100,000	\$ 150,000	\$ 50,000	50.0%

Other Income

Other Income consists of leases, permits, sales of land and equipment, and other miscellaneous revenues. The increase in equipment sales income is due to heavy duty equipment sales which hold higher values than the smaller equipment sold in the prior year.

Sources	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change
Annex East, West and Garage Lease	\$ 602,391	\$ 602,391	\$ -	0.00%
Floodway Leases & Permits	\$ 185,355	\$ 161,839	\$ (23,516)	-12.69%
Miscellaneous Revenues	\$ 32,000	\$ 28,700	\$ (3,300)	-10.31%
Land, Equipment, & Sand Sales	\$ 12,500	\$ 94,000	\$ 81,500	652.00%
Total	\$ 832,246	\$ 886,930	\$ 54,684	6.57%

Special Projects/ Contingency Fund - Expenditures -

Special Projects/Contingency Expenditures

The Special Projects/Contingency fund provides a funding resource to support projects approved by the Board, associated consulting services, and recreation. Panther Island/Central City Canal Consulting includes calculation of detention credits and potential site driven engineering changes to canals. Additional details of the recreation budget will be provided on the following pages.

	FY23 Proposed Budget
Panther Island/Central City Canal Consulting	\$ 350,000
Panther Island Land Strategy	\$ 100,000
Net Recreation Expenses	\$ 1,731,262
Total	\$ 2,181,262

Special Projects/ Contingency Fund - Recreation Budget -

Recreation FY23 Budget Summary

Recreation Overview

Much of the infrastructure TRWD has built provides excellent recreational opportunities for the public. For example, maintenance roads 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 further TRWD's mission. Overall, in FY23 the District has a \$3.5 million recreation program for a net investment of \$1.7 million.

TRWD will undertake a recreation master plan in FY23. Some expenses and events have been modified to increase alignment with the District's mission and to focus on the upcoming master plan.

Operating Revenues	FY21 Actuals	FY22 Approved		FY23 Proposed		Variance	% Change
		Budget	Budget	Budget	Budget		
Events & Programming	\$ 957,957	\$ 1,019,400	\$ 454,300	\$ (565,100)	-55.43%		
Infrastructure Enhancement	\$ 0	\$ 675,000	\$ 200,000	\$ (475,000)	-70.37%		
Infrastructure (Ongoing Maintenance)	\$ 1,260,045	\$ 1,132,840	\$ 1,105,900	\$ (26,940)	-2.38%		
Total Revenues	\$ 2,218,002	\$ 2,827,240	\$ 1,760,200	\$ (1,067,040)	-37.74%		
Operating Expenditures							
Events & Programming	\$ 1,187,216	\$ 1,540,900	\$ 955,850	\$ (585,050)	-37.97%		
Infrastructure Enhancement	\$ -	\$ 1,465,000	\$ 700,000	\$ (765,000)	-52.22%		
Infrastructure (Ongoing Maintenance)	\$ 877,776	\$ 694,650	\$ 744,150	\$ 49,500	7.13%		
Admin Support	\$ 1,220,019	\$ 1,467,950	\$ 1,091,462	\$ (376,488)	-25.65%		
Total Expenditures	\$ 3,285,011	\$ 5,168,500	\$ 3,491,462	\$ (1,677,038)	-32.45%		
Net Recreation Expenses	\$ (1,067,009)	\$ (2,341,260)	\$ (1,731,262)	\$ 609,998	-26.05%		

Recreation Event and Programming Budget Summary

Revenues	FY21 Actuals	FY22 Approved		FY23 Proposed	Variance	% Change
		Budget	Budget	Budget		
Oktoberfest Fort Worth	\$ 415,405	\$ 330,000	\$ -	\$ (330,000)	-100.00%	
Panther Island Ice Rink	\$ 275,049	\$ 250,000	\$ 288,100	\$ 38,100	15.24%	
Fort Worth Fourth	\$ 112,011	\$ 235,000	\$ 30,000	\$ (205,000)	-87.23%	
Rockin' the River	\$ 93,648	\$ 114,500	\$ 114,600	\$ 100	0.09%	
Fort Wurst	\$ 36,435	\$ 52,500	\$ -	\$ (52,500)	-100.00%	
Flyfest	\$ 11,081	\$ 14,000	\$ 11,100	\$ (2,900)	-20.71%	
Sunday Funday	\$ 8,353	\$ 8,900	\$ -	\$ (8,900)	-100.00%	
PIP - Rentals & Concessions	\$ -	\$ 6,000	\$ -	\$ (6,000)	-100.00%	
Trash Bash	\$ 1,500	\$ 2,500	\$ 5,000	\$ 2,500	100.00%	
Adopt a Drain	\$ 475	\$ 1,000	\$ 500	\$ (500)	-50.00%	
Adopt a River	\$ 4,000	\$ 5,000	\$ 5,000	\$ -	0.00%	
Total Revenues	\$ 957,957	\$ 1,019,400	\$ 454,300	\$ (565,100)	-55.43%	
Expenditures						
Fort Worth Fourth	\$ 314,481	\$ 372,500	\$ 180,000	\$ (192,500)	-51.68%	
Oktoberfest Fort Worth	\$ 271,017	\$ 295,000	\$ -	\$ (295,000)	-100.00%	
Panther Island Ice Rink	\$ 203,712	\$ 250,000	\$ 252,000	\$ 2,000	0.80%	
Rockin' the River	\$ 159,226	\$ 171,000	\$ 186,000	\$ 15,000	8.77%	
Trash Bash	\$ 71,547	\$ 81,000	\$ 117,000	\$ 36,000	44.44%	
Flyfest	\$ 58,306	\$ 55,000	\$ 41,000	\$ (14,000)	-25.45%	
PIP - Rentals & Concessions	\$ 3,831	\$ 12,000	\$ -	\$ (12,000)	-100.00%	
Trout Stockings	\$ 25,000	\$ 27,250	\$ 28,000	\$ 750	2.75%	
Fort Wurst	\$ 18,742	\$ 26,200	\$ -	\$ (26,200)	-100.00%	
Mayfest	\$ -	\$ 18,000	\$ 18,000	\$ -	0.00%	
Sunday Funday	\$ 9,249	\$ 12,500	\$ -	\$ (12,500)	-100.00%	
Adopt a River	\$ 1,289	\$ 20,000	\$ 10,000	\$ (10,000)	-50.00%	
Adopt a Drain	\$ 291	\$ 1,000	\$ 1,000	\$ -	0.00%	
Marine Creek Health Fair	\$ -	\$ 7,000	\$ -	\$ (7,000)	-100.00%	
Bridgeport Kid Fest	\$ -	\$ -	\$ 1,000	\$ 1,000	100.00%	
Eagle Mountain Park Trail Run	\$ -	\$ -	\$ 2,500	\$ 2,500	100.00%	
Geocaching	\$ 4,215	\$ 4,500	\$ 4,500	\$ -	0.00%	
Program Support	\$ 46,310	\$ 187,950	\$ 114,850	\$ (73,100)	-38.89%	
Total Expenditures	\$ 1,187,216	\$ 1,540,900	\$ 955,850	\$ (585,050)	-37.97%	
Net Investment	\$ (229,259)	\$ (521,500)	\$ (501,550)	\$ 19,950	-3.83%	

Recreation Events & Programming Budget Summary (continued)

Events & Programming	Revenue FY23	Expenditures	Net Investment
	Proposed Budget	FY23 Proposed Budget	FY23 Proposed Budget
Fort Worth Fourth	\$ 30,000	\$ 180,000	\$ (150,000)
Panther Island Ice Rink	\$ 288,100	\$ 252,000	\$ 36,100
Rockin' the River	\$ 114,600	\$ 186,000	\$ (71,400)
Trash Bash	\$ 5,000	\$ 117,000	\$ (112,000)
Flyfest	\$ 11,100	\$ 41,000	\$ (29,900)
Trout Stockings	\$ -	\$ 28,000	\$ (28,000)
Mayfest	\$ -	\$ 18,000	\$ (18,000)
Adopt a River	\$ 5,000	\$ 10,000	\$ (5,000)
Adopt a Drain	\$ 500	\$ 1,000	\$ (500)
Bridgeport Kid Fest	\$ -	\$ 1,000	\$ (1,000)
Eagle Mountain Park Trail Run	\$ -	\$ 2,500	\$ (2,500)
Geocaching	\$ -	\$ 4,500	\$ (4,500)
Program Support	\$ -	\$ 114,850	\$ (114,850)
Total	\$ 454,300	\$ 955,850	\$ (501,550)



Recreation Infrastructure Enhancements Budget Summary

These are the proposed infrastructure enhancement projects. The District is budgeting for a recreation master plan to identify and strategize the best way to implement recreation alignment with the vision and missions of the District.

Infrastructure Enhancement	Budgeted Contributions FY2023	Budgeted Expenditures FY2023	Infrastructure Enhancement Net Cost
Recreation Master Plan	\$ -	\$ 250,000	\$ (250,000)
Panther Island Pavilion - Parking Lot Resurfacing	\$ 200,000	\$ 250,000	\$ (50,000)
Ten Mile Trailhead	\$ -	\$ 100,000	\$ (100,000)
Public Art & Signs	\$ -	\$ 75,000	\$ (75,000)
Twin Points Amenities Additions	\$ -	\$ 25,000	\$ (25,000)
Total	\$ 200,000	\$ 700,000	\$ (500,000)



Recreation Infrastructure Budget Summary

Revenues	FY21 Actuals	FY22 Approved		FY23 Proposed		Variance	% Change
		Budget	Budget	Budget	Budget		
Woodshed Restaurant	\$ 206,455	\$ 148,000	\$ 148,000	\$ 148,000	\$ -	0.00%	
Coyote Drive-In Theatre	\$ 220,334	\$ 175,000	\$ 175,000	\$ 175,000	\$ -	0.00%	
Twin Points Park	\$ 499,807	\$ 475,000	\$ 495,000	\$ 495,000	\$ 20,000	4.21%	
Eagle Mountain Park	\$ -	\$ 6,500	\$ -	\$ -	\$ (6,500)	-100.00%	
Panther Island Facilities	\$ 134,933	\$ 136,000	\$ 103,200	\$ 103,200	\$ (32,800)	-24.12%	
Trinity Trail Permits	\$ 13,238	\$ 13,000	\$ 11,000	\$ 11,000	\$ (2,000)	-15.38%	
Bridgeport & EM Leases	\$ 185,278	\$ 179,340	\$ 169,700	\$ 169,700	\$ (9,640)	-5.38%	
Floodway - Metroplex Ski	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ 4,000	100.00%	
Total Revenues	\$ 1,260,045	\$ 1,132,840	\$ 1,105,900	\$ 1,105,900	\$ (26,940)	-2.38%	
Expenditures							
Woodshed Restaurant	\$ 7,662	\$ 3,600	\$ 3,600	\$ 3,600	\$ -	0.00%	
Coyote Drive-In Theatre	\$ 87,389	\$ 65,000	\$ 75,350	\$ 75,350	\$ 10,350	15.92%	
Twin Points Park	\$ 227,968	\$ 180,250	\$ 202,350	\$ 202,350	\$ 22,100	12.26%	
Eagle Mountain Park	\$ 36,866	\$ 83,450	\$ 82,500	\$ 82,500	\$ (950)	-1.14%	
Panther Island Facilities	\$ 170,606	\$ 178,050	\$ 180,250	\$ 180,250	\$ 2,200	1.24%	
Trailhead Maintenance	\$ 185,964	\$ 184,300	\$ 200,100	\$ 200,100	\$ 15,800	8.57%	
Public Art & Signs	\$ 161,321	\$ -	\$ -	\$ -	\$ -	100.00%	
Total Expenditures	\$ 877,776	\$ 694,650	\$ 744,150	\$ 744,150	\$ 49,500	7.13%	
Net Revenues	\$ 382,269	\$ 438,190	\$ 361,750	\$ 361,750	\$ (76,440)	-17.44%	

TRWD will undertake a recreation master plan in FY23. Some expenses and events have been modified to increase alignment with the District's mission and to focus on the upcoming master plan. The largest areas of infrastructure expenses are at Twin Points Park, multiple trailheads, Panther Island Facilities, and Eagle Mountain Park which are maintained to a level that provide recreational space for the public to use. Maintenance includes but is not limited to grounds maintenance, building structure maintenance, and utilities.



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

Recreation Infrastructure Budget Summary (continued)

Infrastructure Expenditures & Related Revenue	Revenue FY23 Proposed Budget	Expenditures FY23 Proposed Budget	Net Revenue/Cost FY23 Proposed Budget
Woodshed Restaurant	\$ 148,000	\$ 3,600	\$ 144,400
Coyote Drive-In Theatre	\$ 175,000	\$ 75,350	\$ 99,650
Twin Points Park	\$ 495,000	\$ 202,350	\$ 292,650
Eagle Mountain Park	\$ -	\$ 82,500	\$ (82,500)
Panther Island Facilities	\$ 103,200	\$ 180,250	\$ (77,050)
Trinity Trail Permits	\$ 11,000	\$ -	\$ 11,000
Bridgeport & EM Leases	\$ 169,700	\$ -	\$ 169,700
Floodway - Metroplex Ski	\$ 4,000	\$ -	\$ 4,000
Trailhead Maintenance	\$ -	\$ 200,100	\$ (200,100)
Total	\$ 1,105,900	\$ 744,150	\$ 361,750

Recreation Support Services Overview

Total employee related expenditures budgeted for FY23 are \$1.1 million, representing a decrease of 25.65% from prior year’s budget. The main driver of 2023’s decrease is a shift of three employees from a direct recreation allocation strategy to other allocation strategies due to the expectation that these employees will focus on activities beyond the scope outlined for the Recreation Fund.

Expenditures	FY22 Approved		FY23 Proposed		Variance	% Change
	FY21 Actuals	Budget	Budget			
Personnel Services	\$ 1,108,040	\$ 1,360,034	\$ 982,818	\$ (377,216)	-27.74%	
Administrative Support Services	\$ 111,979	\$ 107,916	\$ 108,644	\$ 728	0.67%	
Total Expenditures	\$ 1,220,019	\$ 1,467,950	\$ 1,091,462	\$ (376,488)	-25.65%	
Net Investment	\$ (1,220,019)	\$ (1,467,950)	\$ (1,091,462)	\$ 376,488	-25.65%	



TRWD provides access to recreation along the river and throughout the city by managing the Trinity Trails' 100+ mile trail system.




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

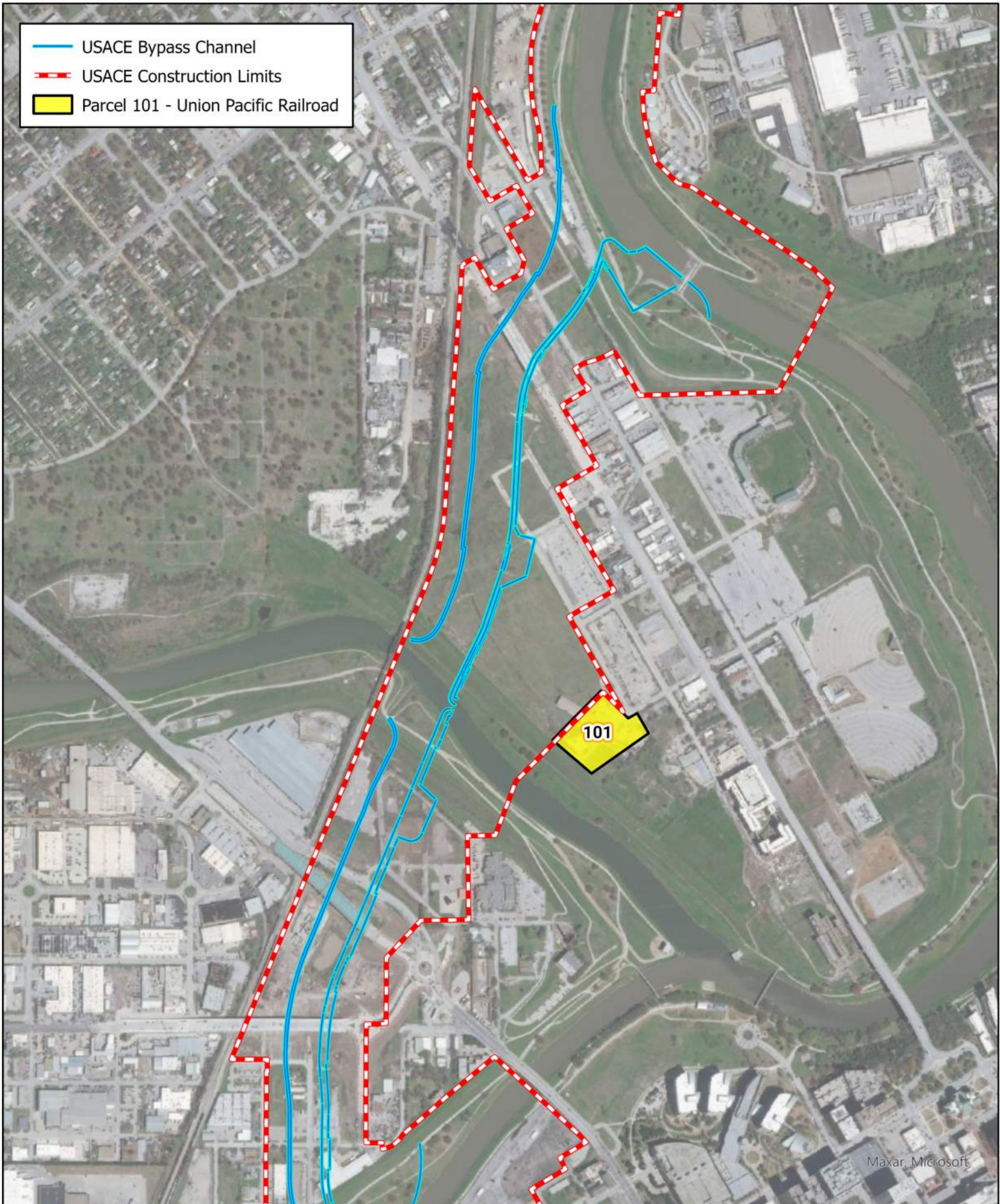
In May 2018 a special bond election was held and approved by the voters to issue \$250 million in bonds to finance the remaining outstanding local share of the Panther Island/Central City Project. This \$250 million will be repaid by The City of Fort Worth Tax Increment Reimbursement Zone Number Nine (TIF9) in accordance with the project costs funding agreement, hence, we have both the TIF revenue and debt service expense shown in the Special Projects/Contingency fund. The table below illustrates how the TIF Revenues collected will directly offset the budgeted debt expenditures for FY23.

Debt Service	FY22 Approved		FY23 Proposed		Variance	% Change
	FY21 Actuals	Budget	Budget	Budget		
TIF Revenues	\$ 7,191,635	\$ 6,680,455	\$ 7,310,553	\$ 630,098	9.43%	
Debt Service/ Project Costs	\$ 4,127,939	\$ 6,680,455	\$ 7,310,553	\$ 630,098	9.43%	
Net Change in Debt Services Equity	\$ 3,063,696	\$ -	\$ -	\$ -	100.00%	

Central City/Panther Island Local FY 2023 Budget		
	USACE - Central City Flood Control Project	FY23
TRWD	Land Acquisition	\$9,096,102
	Flood Control Cash Match	\$1,803,288
	Relocation	\$122,649
	Demolition	\$323,402
	Environmental	\$264,900
	Program Management	\$1,945,180
CITY OF FW	Sewer & Water Relocation Reimb	\$0
	Storm Water Relocation	\$0
	Franchise Utilities	\$504,680
	Local Street Mods	\$124,000
TRWD - Local Subtotal		\$13,555,521
COFW - Local Subtotal		\$628,680
Total USACE		\$14,184,201
	Local Other Projects	FY23
TRWD	Marine Creek/Stockyards Connection	\$0
	Bypass Local Share (hardscape & softscape)	\$2,913,196
CITY OF FW	Panther Island Sewer and Water	\$0
	Panther Island Storm Drainage	\$0
	Bridge reimb F&N*	\$405,491
	Gateway Park	\$0
TRWD - Local Subtotal		\$2,913,196
COFW - Local Subtotal		\$405,491
Total Local Other Projects		\$3,318,687
	Contingency	FY23
TRWD	Bond Issuance Costs	\$30,000
	COG Bridge Repayment*	\$350,000
	Cash match	\$0
Local Contingency Subtotal		\$380,000
TRWD		\$16,848,717
COFW		\$1,034,171
Total		\$17,882,888

*The bridge costs were not part the engineer's report used for the bond approval. These will be paid directly from TIF revenues and not bonded.

-  USACE Bypass Channel
-  USACE Construction Limits
-  Parcel 101 - Union Pacific Railroad



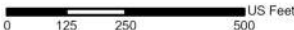
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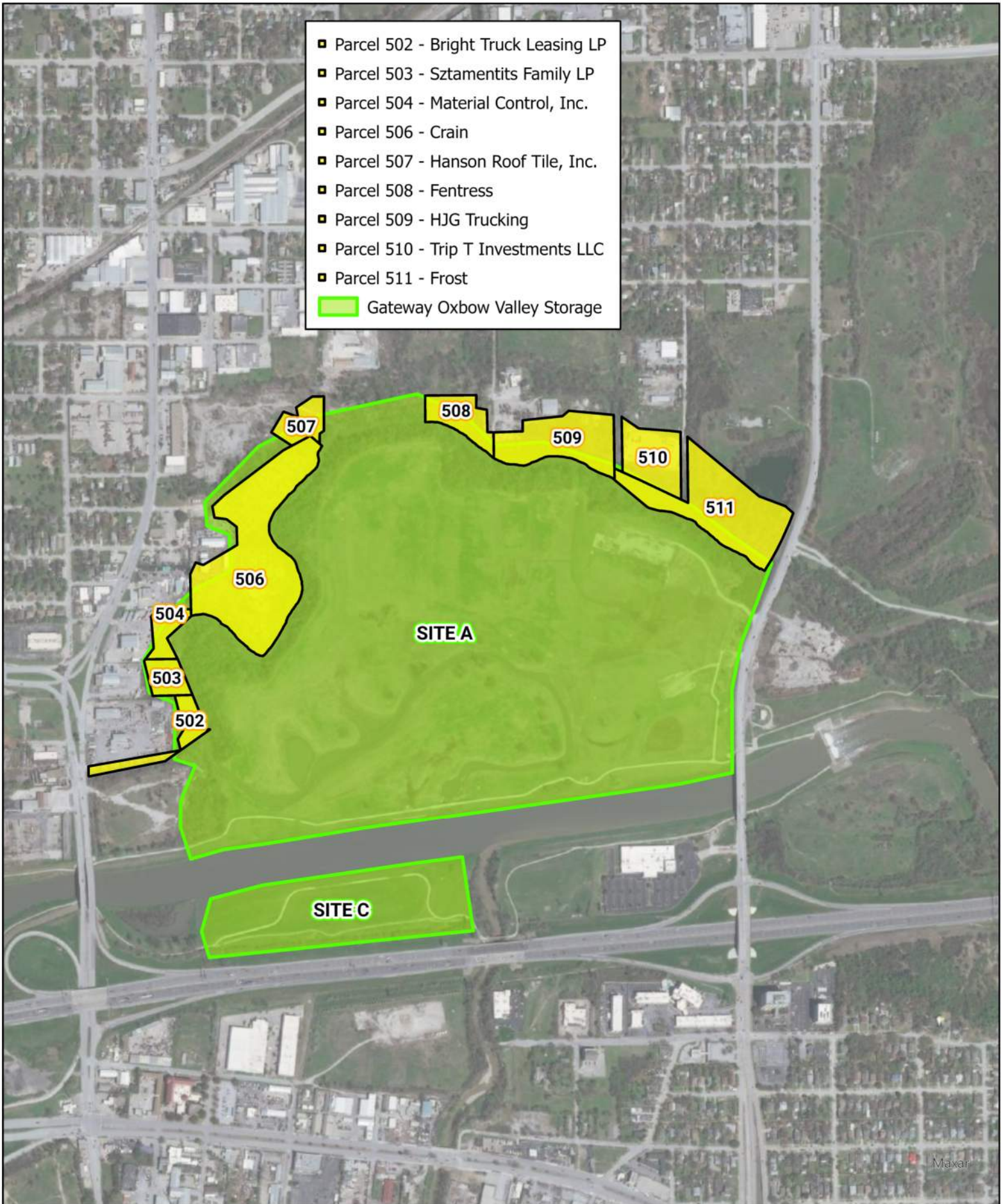
**FY23 LAND ACQUISITION
BYPASS CHANNEL**

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 7/8/2022 10:35 AM BY TRWD



- Parcel 502 - Bright Truck Leasing LP
- Parcel 503 - Sztamentits Family LP
- Parcel 504 - Material Control, Inc.
- Parcel 506 - Crain
- Parcel 507 - Hanson Roof Tile, Inc.
- Parcel 508 - Fentress
- Parcel 509 - HJG Trucking
- Parcel 510 - Trip T Investments LLC
- Parcel 511 - Frost
- Gateway Oxbow Valley Storage



- USACE Bypass Channel
- - - USACE Construction Limits
- Parcel 101 - Union Pacific Railroad



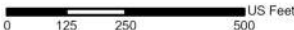
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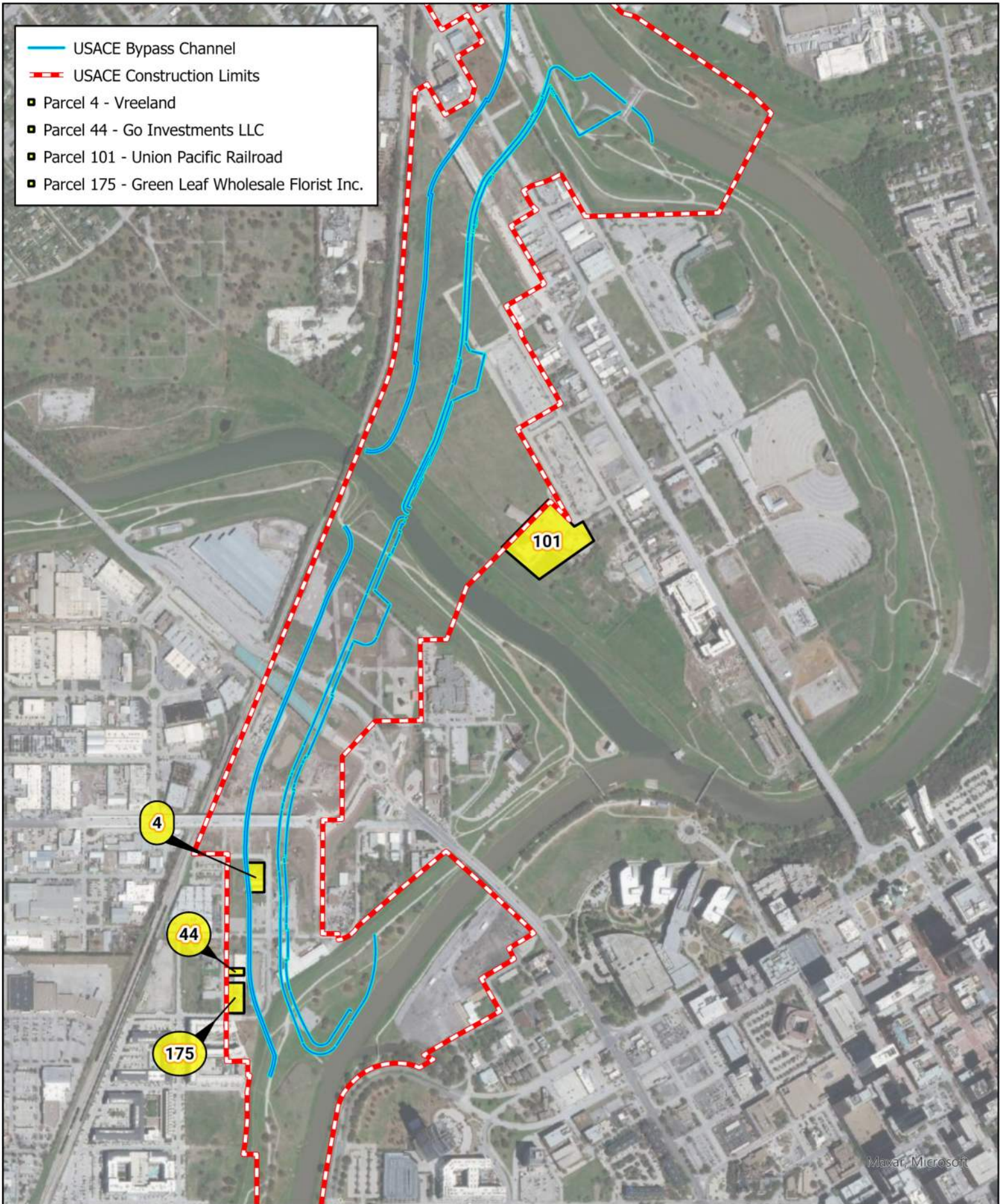
FY23 RELOCATION

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MAP PRODUCED ON 7/8/2022 10:35 AM BY TRWD

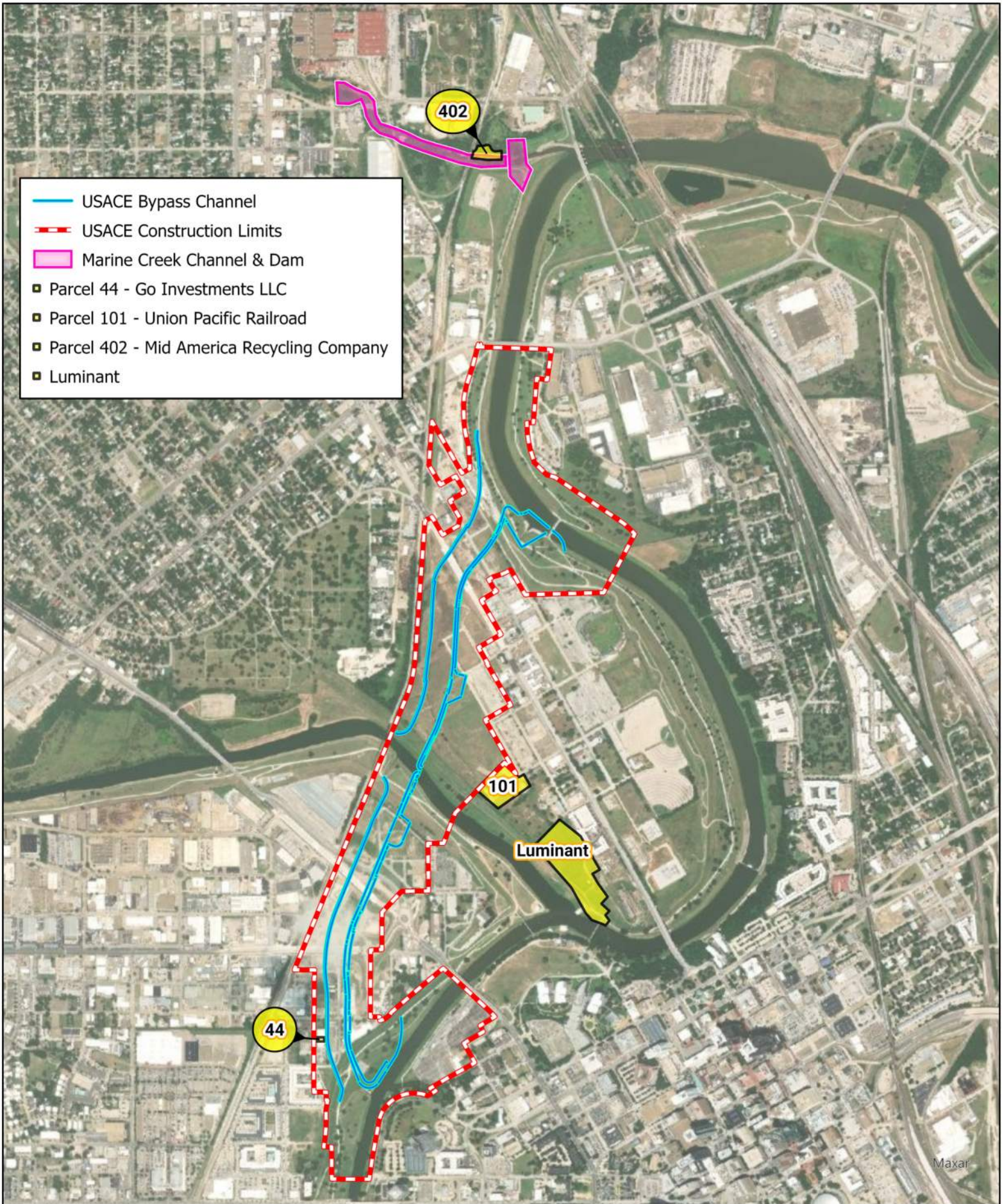


- USACE Bypass Channel
- - - USACE Construction Limits
- ▣ Parcel 4 - Vreeland
- ▣ Parcel 44 - Go Investments LLC
- ▣ Parcel 101 - Union Pacific Railroad
- ▣ Parcel 175 - Green Leaf Wholesale Florist Inc.



Maxar, Microsoft





- USACE Bypass Channel
- USACE Construction Limits
- Marine Creek Channel & Dam
- Parcel 44 - Go Investments LLC
- Parcel 101 - Union Pacific Railroad
- Parcel 402 - Mid America Recycling Company
- Luminant




Maxar



— USACE Bypass Channel
- - - USACE Bypass Channel Construction Limits

○ Franchise Utilities



 USACE Bypass Channel
 USACE Bypass Channel Construction Limits
 **Street Modifications**



-  USACE Bypass Channel
-  USACE Construction Limits
-  Pedestrian Bridges



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Special Projects/Contingency Fund - FY23 Budget Summary

Revenue	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change	Notes*
Oil and Gas Revenues	\$ 6,000,000	\$ 7,000,000	\$ 1,000,000	16.67%	1
Interest Income	\$ 100,000	\$ 150,000	\$ 50,000	50.00%	2
Other Income	\$ 832,246	\$ 886,930	\$ 54,684	6.57%	
Total Revenues	\$ 6,932,246	\$ 8,036,930	\$ 1,104,684	15.94%	

Expenditures	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change	Notes*
Capital Expenditures	\$ 787,500	\$ -	\$ (787,500)	-100.00%	3
Panther Island/Central City Canal Consulting	\$ 225,000	\$ 350,000	\$ 125,000	55.56%	4
Panther Island Land Strategy	\$ 100,000	\$ 100,000	\$ -	0.00%	
Net Recreation Expenses	\$ 2,341,260	\$ 1,731,262	\$ (609,998)	-26.05%	5
Total Expenditures	\$ 3,453,760	\$ 2,181,262	\$ (1,272,498)	-36.84%	

Debt Service - Panther Island/ Central City Project	FY22 Approved Budget	FY23 Proposed Budget	Variance	% Change	Notes*
TIF Revenues	\$ 6,680,455	\$ 7,310,553	\$ 630,098	9.43%	
Debt Service/Project Costs	\$ 6,680,455	\$ 7,310,553	\$ 630,098	9.43%	
Total Debt Service	\$ -	\$ -	\$ -	100.00%	

Budgeted Net Increase to Equity	\$ 3,478,486	\$ 5,855,668	\$ 2,377,182	68.34%	
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Variance Explanations

1 Oil & Gas

Increased due to rising oil prices.

2 Interest Income

With the uptake in current interest rates, the District has conservatively increased the expected interest income for FY23.

3 Capital Expenditures

No special projects in FY23 needing capital expenditures. FY22 funded the Panther Island/ Central City Canal project.

4 Panther Island/ Central City Canal

Increase is for consulting service specifically for Panther Island/ Central City Canal.

5 Net Recreation Expenses

This budget includes the Recreation Master Plan which will give TRWD guidance for future plans.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 8

DATE: September 20, 2022

SUBJECT: **Vote to Adopt a Tax Rate of \$.0269/\$100 for Tax Year 2022**

FUNDING: N/A

RECOMMENDATION:

Management recommends formal adoption of an ad valorem tax rate of \$.0269/\$100 valuation, for tax year 2022, which is a decrease from tax year 2021.

DISCUSSION:

The Board must adopt a tax rate by official action and set it out in a written resolution, ordinance, or order. The tax rate must be adopted after the adoption of the FY 2022 General Fund Budget.

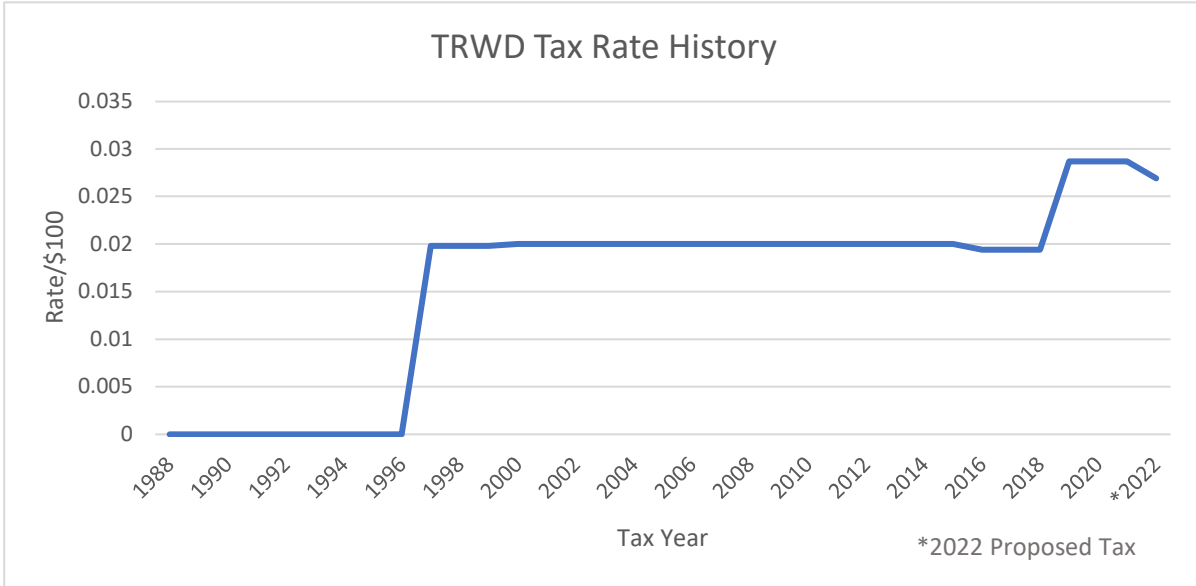
The public hearing was held September 19, 2022 at 2:00 PM on the proposed tax year 2022 tax rate of \$.0269/\$100.

Submitted By:

Sandy Newby
Chief Financial Officer

2022 Proposed Tax Rate for FY2023 Budget Discussion

2022 Proposed Tax Rate	2021 Tax Rate	% Decrease
\$0.0269	\$0.0287	-6.27%
Estimated FY23 Tax Collections	FY23 Proposed Expense Budget	Estimated Increase to Equity
\$24,600,000	\$22,367,363	\$2,232,637



**ORDER OF BOARD OF DIRECTORS OF
TARRANT REGIONAL WATER DISTRICT
ADOPTING AD VALOREM TAX**

On the 20th day of September, at a regularly scheduled meeting of the Board of Directors of Tarrant Regional Water District, upon motion duly made and seconded, the Board of Directors unanimously entered the following order:

IT IS HEREBY ORDERED that Tarrant Regional Water District adopt for tax year 2022 an ad valorem tax rate of \$.0269 per \$100 of taxable value as appraised by the Tarrant County Appraisal District and that the Water District staff take the necessary steps to implement collection of the tax so adopted.

Leah M. King, President

ATTEST:

Jim Lane, Secretary

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 9

DATE: September 20, 2022

SUBJECT: Consider Approval of Contract with Hydros Consulting for Technical Support

FUNDING: Fiscal Year 2023 Revenue Fund - \$100,000

RECOMMENDATION:

Management recommends approval of an annual on-call service contract **in an amount not-to-exceed \$100,000 annually** with an option to renew for two additional one-year periods with Hydros Consulting for technical support services.

DISCUSSION:

RiverWare is a river, reservoir, and pipeline water system modeling tool that the District uses for operational decision-making, responsive forecasting, operational policy evaluation, system optimization, and long-term resource planning.

Engineers with Hydros Consulting have been assisting the District in analyses, evaluations, and studies of the District's water supply operations through continued development of the RiverWare model since 2005.

The District anticipates that it will need ongoing technical support related to the use of its RiverWare model and associated program files, maintenance of the connection between the RiverWare hydrologic model and TRWD's hydraulic model, the upcoming Integrated Water Supply Plan Update, continued studies to evaluate climate forecasting and system reliability, operational policies including the Integrated Pipeline (IPL), database support, and training.

This is a time and materials contract for on-call services. The scope of work and billing rates are attached.

This item was reviewed by the Construction and Operations Committee on September 16, 2022.

Submitted By:

Zachary Huff, P.E.
Water Resources Engineering Director

SCOPE OF SERVICES and BUDGET
TRWD On-Call Water Resources Services – FY23-FY25

Purpose: Hydros Consulting, Inc., has been working with Tarrant Regional Water District (the District) since 2005, assisting the District in analysis, evaluation, and studies of the District’s water supply operations. Recently, Hydros has assisted in integrating the RiverWare forecasting model with the TRWD SupplyOpt hydraulics optimization model and several long-term planning studies.

This scope of services is for technical support for the TRWD RiverWare model, support for the Integrated Water Supply Plan (IWSP) studies and associated RiverWare model enhancements.

Hydros will provide TRWD with water resources services as requested by Laura Blaylock, Vinicius de Oliveira, Nicole Rutigliano, Devin Taylor, and others at the District. The tasks will include but are not limited to:

1. Assist TRWD with ongoing maintenance and development of TRWD’s suite of RiverWare Water Supply Planning Tools. These include TRWD’s RiverWare model, ruleset, Excel databases, global-downscaling-based forecasting tools for the eastern and western portions of the TRWD system, Markov-chain-based hydrologic trace generation tool, interface with TRWD’s SupplyOpt hydraulics model, and evaporation and precipitation tools.
2. Support TRWD in the Integrated Water Supply Plan by adding new water sources and policies to the existing RiverWare model of the TRWD system. Assist in evaluation of alternative scenarios for water supply planning.
3. Assist with the maintenance of the updated TRWD Accounting Plan and West Fork operational policy (Bridgeport to Eagle Mountain release) in RiverWare model.
4. Support TRWD staff in adding yearly record data, updating the trace generation tool, and sampling from an extended database during the Markov-chain hydrologic trace generation process for RiverWare Forecasting runs.
5. Investigate and implement the potential use of a Hydros’ git repository for scripts and associated RiverWare files.

6. Continue to streamline the RiverWare set-up process and reduce model runtime. Clean up the model so that it is more user-friendly. This includes consolidating user-controlled switches and removing unnecessary model pieces and policy.
7. Assist TRWD with their ongoing development of a TRWD RiverWare model user manual, forecasting tools user-manual, evaporation data tool user-manual, and model policy guide.
8. Ongoing tech support.

Budget and Schedule

The estimated total budget for TRWD On-Call Water Resources Services from October 1, 2022 to September 30, 2023 is \$100,000.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 10

DATE: September 20, 2022

SUBJECT: Consider Approval of Contract with Freese and Nichols, Inc. for Upstream Flood Mitigation Analysis

FUNDING: Fiscal Year 2023 General Fund Budget - \$300,000

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed \$652,248** with Freese and Nichols, Inc. (FNI) for professional services to perform Upstream Flood Mitigation Analysis (UFMA).

DISCUSSION:

The District has been involved in planning, construction, and maintenance of the levee system, known as the Fort Worth Floodway dating back to the District's creation in 1924. The Floodway provides protection along the West and Clear Forks of the Trinity River through the City of Fort Worth. The design flows of the Floodway were originally established in 1949 when the area upstream of the floodway was almost exclusively rural. This area is now rapidly developing, leading to more runoff and the potential for increased water levels in the Floodway. The Central City Project, with its by-pass channel that provides additional flood carrying capacity, addresses increased flows within the floodway through Downtown. The purpose of this study is to identify and evaluate potential flood mitigation alternatives in the areas upstream of the Fort Worth Floodway to provide protection from future increase in flows as the upstream area continues to develop.

The Request for Statement of Qualifications was advertised as per statute with qualifications received from three engineering consulting firms. All three submittals were reviewed and evaluated, and FNI was determined to be the most qualified firm. Staff recommends contracting FNI to perform the analyses. The final project scope is attached.

This item was reviewed by the Construction and Operations Committee on September 16, 2022.

Submitted By:

Zachary Huff, P.E.
Water Resources Engineering Director

EXHIBIT A-1
UPSTREAM FLOOD MITIGATION ANALYSIS
ENGINEER'S SCOPE OF SERVICES

PROJECT UNDERSTANDING

TRWD is interested in evaluating flood mitigation alternatives in the areas upstream of the Fort Worth Floodway Federal Project which includes the Fort Worth Central City (FWCC) Project with the goal of reducing peak flows to a level at or below the levels established in the FWCC design. Peak flow estimates have increased over time with development in the area upstream of the Floodway. In addition, USACE has developed new hydrologic and hydraulic models of the region that indicate an increase in peak flow. This investigation is necessitated by the anticipation of increased development within the Mary's Creek basin, which is one of the largest uncontrolled watersheds contributing to the Fort Worth Floodway. This basin spans multiple jurisdictions including the City of Fort Worth, the City of Benbrook, Tarrant County, and Parker County. As this area develops, options for mitigation become fewer. This study will develop a new baseline model to evaluate peak flows through the Fort Worth Floodway and use it to evaluate mitigation measures that can reduce flood flows to the Fort Worth Floodway.

This scope of work includes the following tasks:

- Task 1 – Project Management and Meetings
- Task 2 – Data Collection
- Task 3 – Existing Conditions Analysis
- Task 4 – Mitigation Alternatives Analysis
- Task 5 – Flood Damage Assessment
- Task 6 – Report and Presentation

BASIC SERVICES: FNI shall render the following professional services in connection with the development of the Project:

Task 1 – PM and Meetings

- 1) Project Management - FNI will provide Project Management services including project coordination, routine communications with TRWD, and monthly status reporting (at a minimum).
- 2) Bi-Weekly Meetings with TRWD PM – FNI will hold a bi-weekly status call with the TRWD PM for the duration of the project. A typical call is anticipated to be thirty minutes long but may vary depending on the topic. (24 months)
- 3) Milestone Meetings - FNI will conduct up to a total of seven (7) team meetings with TRWD staff at key milestones. These meetings are anticipated as follows:
 - a. Kickoff and data collection (1)
 - b. Existing conditions review (1)
 - c. Concepts alternatives screening (1)
 - d. Alternatives results (1)
 - e. Regional partner results (1)
 - f. One (1) additional team meeting as needed

Task 2 – Data Collection and Review

FNI will attempt to collect and review the following information:

- 1) Previous models, watershed studies, and reports from TRWD and USACE including but not limited to FWCC Bypass Channel Model, 2009 CDC model, 2012 CDC model, WHA model, Preliminary Tarrant County FIS HEC-RAS, Parker County Mary's Creek CTP model and TRWD operational forecast model.
- 2) Information on FWCC project including latest hydraulic model, bypass channel design surface, TRV bridge record drawings.
- 3) GIS data, including but not limited to topographic maps, building footprints, zoning maps, levee mapping, easements, property lines, future land use maps and aerial imagery for base map development.
- 4) Levee profile and structure survey data to be provided by TRWD. FNI will provide a list of survey needs. TRWD will either provide existing survey data on file or procure new survey from TRWD on-call surveyor up to two (2) times. TRWD survey services do not include boundary survey.
- 5) Gage records from USGS.
- 6) Historical precipitation from NOAA.
- 7) Historical releases from Benbrook Lake and Lake Worth for the calibration events. TRWD to provide Lake Worth spillway rating curve and facilitate Benbrook Lake data collection from USACE.
- 8) FNI will make up to two (2) site visits to confirm parameters within the model.

Task 3 – Existing Conditions Analysis

FNI will develop new existing conditions models using the models collected in Task 2 as a basis. FNI will perform the following tasks:

- 1) Hydrology
 - a. Using the WHA model as a starting point, FNI will:
 - i. Subdivide the Mary's Creek watershed as needed to support the analysis.
 - ii. Develop hydrologic elements and model input parameters for the area modified in Task 3.1.a.i (Existing Conditions)
 - iii. Develop hydrologic elements and model input parameters for all subbasins (Future Conditions)
 - iv. Develop SPF precipitation inputs.
 - v. Develop a new HEC-HMS model in version 4.10 (or later) and execute the model for the 2, 5, 10, 25, 50, 100, 500, and SPF storms for both Existing and Future Conditions.
- 2) Hydraulics
 - a. Develop a new HEC-RAS 2D in version 6.2 (or later) model for the extents shown in Figure 1.
 - b. The model will be based on LIDAR, field survey where available, and levee data provided from TRWD.
 - c. Bridge data and other structures from CDC model and other collected models will be represented within the new 2D model. Some simplifications may be made to improve model runtimes and stability.
 - d. Export rough floodplain extents for 100-year and SPF runs. Detailed floodplain mapping is not included in this scope.
- 3) Model Calibration
 - a. Calibrate the hydraulic model created in Task 3.2 to two (2) storm events using the Existing Conditions hydrology revised in Task 3.1, assuming the storms to be one low flow storm and one high flow storm.

- b. Hydraulic model input parameters will be adjusted as needed to achieve calibration to six (6) USGS stream gages within the model domain. Lake Water Surface Elevations will be considered in the calibration at Lake Worth and Benbrook Lake USGS gages to verify appropriate inflow hydrographs.
 - c. The goal of the calibration is to produce a model that is reasonably representative of the gage data. Some minor adjustments to hydrologic parameters are expected (+/- 5%), but a wholesale hydrologic recalibration is outside the scope. If the parameter adjustment tolerance is reached and the calibration remains unsatisfactory, FNI will discuss with TRWD regarding resolution. Anticipated resolution may include adoption of other model loss and transform parameters as the base condition, with effort to be covered under Special Services item 5. TRWD reserves the right to terminate contract at this point if the calibrated model, in the District's opinion, remains unsatisfactory.
- 4) Preliminary Model Review
- a. Submit Preliminary Calibrated HEC-RAS model of existing conditions to TRWD for review.
 - b. Address comments on the Preliminary Calibrated HEC-RAS model.
 - c. Resulting model will be considered the Final Calibrated HEC-RAS model.
- 5) FWCC Conditions
- a. Update the Final Calibrated HEC-RAS model to include the proposed FWCC project components including the bypass channel, bridges, and valley storage locations.
 - b. FWCC project components to be based on information provided by TRWD.
 - c. Resulting model will be considered the FWCC Conditions and will be the baseline for comparison of all mitigation alternatives.
 - d. Compare the model to the latest 1D FWCC bypass channel model at key locations and summarize the differences.
- 6) FWCC Future Conditions
- a. Develop new design discharges and compare to prior discharges.
 - b. Execute the hydraulic model and evaluate performance of FWCC project
 - c. Prepare brief technical memo summarizing FWCC project results and impacts.

Task 4 – Mitigation Alternatives Analysis

The purpose of this task is to identify and evaluate potential mitigation alternatives that restore FWCC Future Conditions to the level of those established by the FWCC Conditions or better.

- 1) Perform a screening assessment of all potential mitigation alternatives.
 - a. Alternatives to be screened will include storage, diversions, and tunnels.
 - b. Screening will consist of simplified technical analysis if required and rough order of magnitude cost estimates.
 - c. Some alternatives may be screened out based on a qualitative assessment with no technical analysis performed.
 - d. All options that are considered will be documented.
- 2) Develop preliminary concepts and discuss during a screening workshop with TRWD staff.
- 3) Based on the outcome of this screening workshop, evaluate up to four (4) potential mitigation scenarios, mutually agreed upon by FNI and TRWD, to potentially include the following:
 - a. Mary's Creek Flood Control Structure (one large structure and/or two or more smaller structures)
 - b. Walsh Ranch Mitigation Plan + watershed storage
 - c. Others TBD. No modifications to the FWCC project as planned are anticipated.
- 4) For each alternative, evaluate and develop the following:
 - a. H&H model runs for the 2, 5, 10, 25, 50, 100, 500, and SPF storms for both Existing and Future Conditions.

- b. Summary of performance for each alternative and corresponding benefits such as structures removed from potential flooding
- c. Cost estimate including planning level contingencies
- d. Preliminary permitting requirements
- e. Real property needs
- f. Potential funding opportunities such as grant and loan programs
- g. Implementation feasibility assessment to include other relevant factors as identified by project team

Task 5 – Flood Damage Assessment

The purpose of this task is to develop a baseline estimate of flood damages under the FWCC conditions as a point of comparison for evaluating the costs and benefits of potential alternatives.

- 1) Develop a baseline damage assessment using the FWCC future conditions analysis.
 - a. Damage assessment will be based on a spreadsheet methodology that replicates FEMA depth damage curves.
 - b. Building footprints will be intersected with inundation from the HEC-RAS 2D model. An assumption for finished floor elevations will be made. No field survey of finished floor elevations will be performed.
 - c. The net present value of the damages will be calculated using the range of modeled flood events.
 - d. Assumptions for the damage assessment will be documented.
- 2) Based on the results of Task 4, each of the alternatives to be evaluated for proposed conditions.
 - a. Calculate the damage assessment for post project conditions with the proposed mitigation alternative in place.
 - b. Compare the post project damage assessment with the baseline damage assessment to determine the benefits of each alternative.
 - c. Utilize the cost estimates developed in Task 4 to calculate a benefit cost ratio for each alternative.

Task 6 – Report, Presentation, and Deliverables

- 1) Prepare a summary presentation of the analysis and key findings.
- 2) TRWD will determine if/when analysis and findings are presented to partners. FNI to prepare and assist TRWD with presentation if needed.
- 3) Prepare a draft report summarizing the analysis with supporting exhibits and digital documentation. Submit electronic PDF to TRWD for review.
- 4) Incorporate one (1) round of comments on the draft report in a final report. Responses to written comments will be provided with final report submittal.
- 5) Submit final report including two (2) hard copies and one (1) digital copy
- 6) Submit digital copy of models/supporting data.

SPECIAL SERVICES: A total budget allowance of \$50,000 has been set aside to cover services that have been identified as potentially needed to support the project but are currently not well defined. If needed, they will be negotiated and authorized separately by Client. These services include activities such as:

1. Additional stakeholder coordination
2. Evaluation of additional alternatives
3. Additional data collection

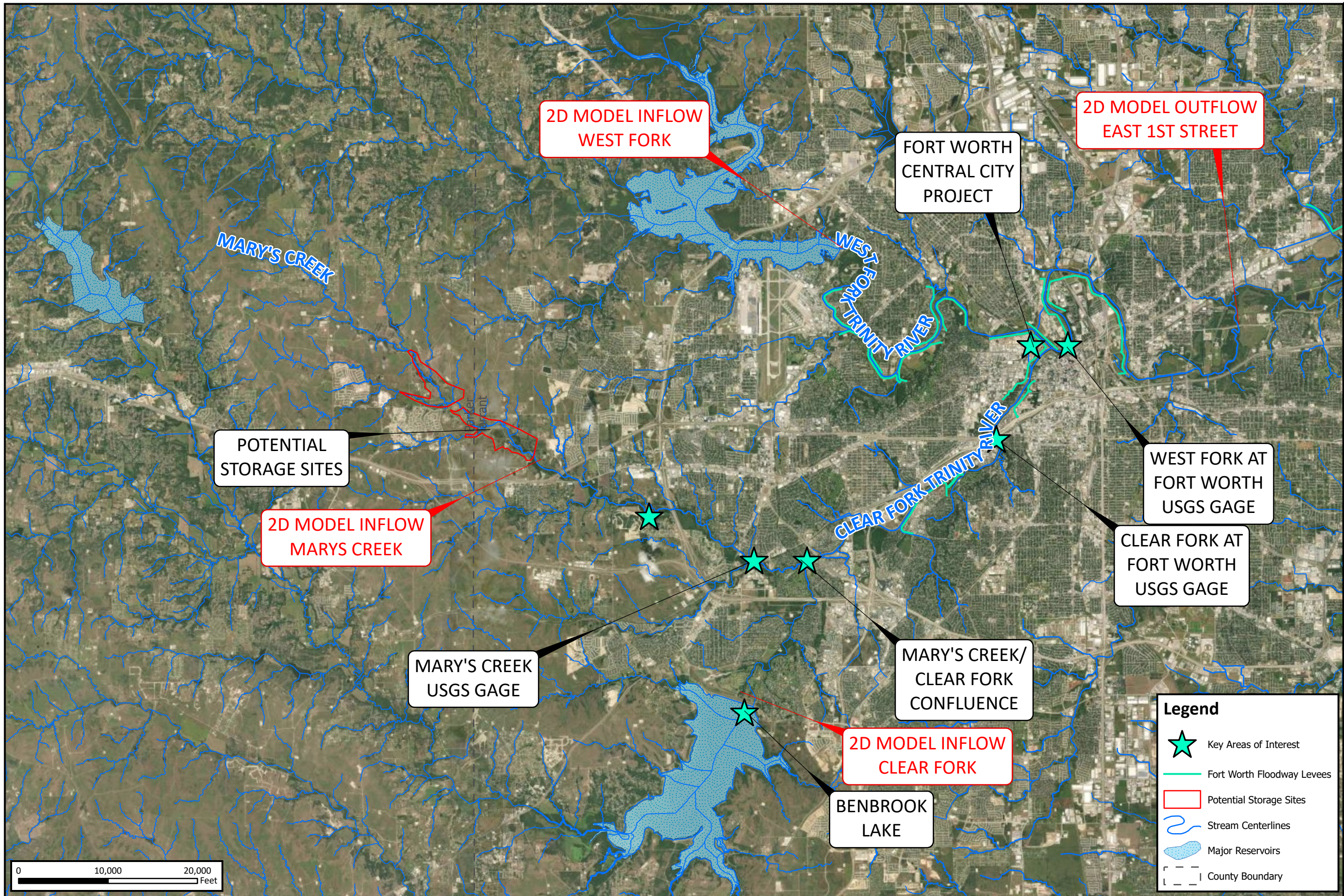
4. Calibration to additional storm events beyond those included above
5. Calibration by hydrologic adjustments in excess of the assumed amounts presented above

ADDITIONAL SERVICES: Any services performed by FNI that are not included in the Basic Services or Special Services described above are Additional Services. Additional Services to be performed by FNI, if authorized by Client, are described as follows:

1. Development of grant applications
2. Development of stormwater impact fees
3. Field Survey
4. Assistance with legal proceedings
5. Coordination with FEMA including a CLOMR or LOMR
6. Detailed coordination with USACE
7. Modeling beyond the extents identified in Figure 1
8. Coordination with landowners
9. Negotiation of easements or real property

SCHEDULE: FNI agrees to complete the services in 24 months from Notice to Proceed. It is anticipated that Tasks 1 through 4.1.2 (Conceptual Alternatives Screening) will be completed within 12 months from Notice to Proceed during FY23. The remainder of the scope will be completed in FY24.

FEE: FNI will be compensated for the Basic Services on a time and materials basis not to exceed Six Hundred Two Thousand Two Hundred Forty-Eight Dollars (\$602,248).



2D MODEL INFLOW
WEST FORK

2D MODEL OUTFLOW
EAST 1ST STREET

FORT WORTH
CENTRAL CITY
PROJECT

POTENTIAL
STORAGE SITES

2D MODEL INFLOW
MARYS CREEK

WEST FORK AT
FORT WORTH
USGS GAGE

CLEAR FORK AT
FORT WORTH
USGS GAGE







MARY'S CREEK
USGS GAGE

MARY'S CREEK/
CLEAR FORK
CONFLUENCE

2D MODEL INFLOW
CLEAR FORK

BENBROOK
LAKE

Legend

-  Key Areas of Interest
-  Fort Worth Floodway Levees
-  Potential Storage Sites
-  Stream Centerlines
-  Major Reservoirs
-  County Boundary

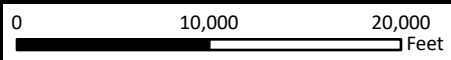


EXHIBIT		1	
FN JOB NO	OFF22041	FILE	Workmap
		DATE	9/2/2022
		SCALE	1:120,000
		DRAFTED	02161

**Upstream Flood
Mitigation Assessment**



**FREESSE
NICHOLS**
801 Cherry Street, Suite 2800
Fort Worth, TX 76102
(P) 817-735-7300 (F) 817-735-7491

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 11

DATE: September 20, 2022

SUBJECT: Consider Approval of a Joint Funding Agreement with U.S. Geological Survey for Gage Network Support Services

FUNDING: Fiscal Year 2023 General Fund Budget - \$240,000
Fiscal Year 2023 Revenue Fund Budget - \$190,000

RECOMMENDATION:

Management recommends approval of a Joint-Funding Agreement (JFA) **in an amount not-to-exceed \$422,410** with the U.S. Geological Survey (USGS) for Gage Network Support Services.

DISCUSSION:

District management regularly makes decisions related to flood operations, water supply, or water quality based on rainfall, streamflow, water level, or water quality data collected and published by the USGS. During times of flood, the District utilizes data collected at reservoir and stream sites to inform flood discharge decisions. During water supply operations, the District uses observed water levels to monitor available reservoir storage to optimize water delivery from the pipelines. Additionally, District management evaluates the reliability of District water supply infrastructure and the viability of potential future sites using USGS data. District management monitors water quality conditions in the Fort Worth Floodway with data collected by USGS.

The District does its part to support a reliable gage network in the Trinity River basin. The data collected at District-sponsored USGS sites benefits many other entities. This includes the National Weather Service radar rainfall estimates and river forecasts. Surrounding communities use the data to inform Federal Emergency Management Agency floodplain mapping in their communities. Emergency management coordinators use data to aid evacuations during flooding. State water planners use the data to assess the reliability and status of state water supplies.

Annual O&M services provided by the USGS include responding to service calls, making periodic field measurements to ensure data accuracy, and publishing quality-controlled data. In addition to O&M services, installation of water quality instrumentation on Mary's Creek and on-call streamflow measurement services will be performed under the FY23 agreement. Water quality data will allow District staff to establish a baseline and monitor changes in water quality as the Mary's Creek watershed continues to develop. On-call streamflow measurements will allow District staff to better calibrate outflow rate from

reservoir spillways and valves, as well as quantify loss/gain of water as it travels from Bridgeport to Eagle Mountain.

This agreement has a total cost of \$481,160. The USGS contribution is \$58,750. The District is responsible for the remaining \$422,410 for services provided during the October 1, 2022 through September 30, 2023 period.

This item was reviewed by the Construction and Operations Committee on September 16, 2022.

Submitted By:

Zachary Huff, P.E.
Water Resources Engineering Director

**Form 9-1366
(May 2018)**

**U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations**

**Customer #: 600000623
Agreement #: 23SJJFATX062000
Project #: SJ009ME
TIN #: 75-6002584**

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2022, by the U.S. GEOLOGICAL SURVEY, Oklahoma-Texas Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Tarrant Regional Water District party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation Water Resource Investigations (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$58,750 by the party of the first part during the period October 1, 2022 to September 30, 2023
- (b) \$422,410 by the party of the second part during the period October 1, 2022 to September 30, 2023
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program:

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>).

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR

Customer #: 600000623
Agreement #: 23SJJFATX062000
Project #: SJ009ME
TIN #: 75-6002584

Water Resource Investigations

9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Kristine Blickenstaff
Branch Chief - Integrated
Hydrology+Data Science
Address: 501 W. Felix Street Bldg 24
Fort Worth, TX 76115
Telephone: (682) 316-5033
Fax: (682) 316-5022
Email: kblickenstaff@usgs.gov

Customer Technical Point of Contact

Name: Craig Ottman
Address: 800 East Northside Drive
Fort Worth, TX 76102
Telephone: (817) 335-2491
Fax:
Email: Craig.Ottman@trwd.com

USGS Billing Point of Contact

Name: Kandis Becher
Budget Analyst
Address: 501 W. Felix Street Bldg 24
Fort Worth, TX 76115
Telephone: (682) 316-5051
Fax: (682) 316-5022
Email: kkbecher@usgs.gov

Customer Billing Point of Contact

Name: Craig Ottman
Address: 800 East Northside Drive
Fort Worth, TX 76102
Telephone: (817) 335-2491
Fax:
Email: Craig.Ottman@trwd.com

U.S. Geological Survey
United States
Department of Interior

Tarrant Regional Water District

Signature
TIMOTHY RAINES
Digitally signed by
TIMOTHY RAINES
Date: 2022.08.05
14:45:48 -05'00'
By TIMOTHY RAINES Date: _____
Name: Timothy H. Raines
Title: Director

Signatures
By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

**Tarrant Regional Water District
23SJJFATX062000**

STATION NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	TRWD FUNDS	TOTAL GROSS COST
001: SURFACE WATER PROGRAM							
08042600	West Fork Trinity River at Hwy 281 nr Windthorst, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,300	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
							\$17,800
08042800	W. Fork Trinity River near Jacksboro, TX						
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	
	Funded by Federal Priority Streamgages						
	Rain Gage	RSTAD	1	1.00	\$0	\$1,500	
	STATION SW TOTAL:						\$1,500
08042820	Lost Creek Reservoir near Jacksboro, TX						
	Reservoir Elevation	RES-E	1	1.00	\$0	\$6,750	
	STATION SW TOTAL:						\$6,550
08042950	Big Ck nr Chico, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,300	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
							\$17,800
08043000	Bridgeport Reservoir above Bridgeport, TX						
	Reservoir Contents	RES-C	1	1.05	\$0	\$8,300	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
	STATION SW TOTAL:						\$9,800
08043950	Big Sandy Creek near Bridgeport, TX						
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	
	Funded by Federal Priority Streamgages						
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
	STATION SW TOTAL:						\$1,500
08044500	W. Fork Trinity River near Boyd, TX						
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	
	Funded by Federal Priority Streamgages						
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
	STATION SW TOTAL:						\$1,500
08044800	Walnut Creek at Reno, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$10,600	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
	STATION SW TOTAL:						\$17,800
08045000	Eagle Mountain Reservoir above Fort Worth, TX						
	Reservoir Contents	RES-C	1	1.05	\$0	\$8,300	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
	STATION SW TOTAL:						\$9,800

08045400	Lake Worth above Fort Worth, TX						
	Reservoir Contents	RES-C	1	1.05	\$0	\$8,300	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
		STATION SW TOTAL:					\$9,800
08045550	W. Fork Trinity River at White Settlement, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$10,600	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
		STATION SW TOTAL:					\$17,800
08045800	Lake Weatherford near Weatherford, TX						
	Reservoir Elevation	RES-E	1	1.00	\$0	\$6,750	
		STATION SW TOTAL:					\$6,750
08045995	Clear Fork Trinity River at Kelly Road near Aledo, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$10,600	
		STATION SW TOTAL:					\$16,300
08047000	Clear Fork Trinity River near Benbrook, TX						
	Full Range Streamflow Station	QCONT	1	1.20	\$0	\$19,560	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
		STATION SW TOTAL:					\$21,060
08047050	Mary's Creek at Benbrook, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$10,600	\$16,300
		STATION SW TOTAL:					
08047500	Clear Fork Trinity River at Fort Worth, TX	QCONT	0	1.00	\$0	\$0	\$0
	Funded by Federal Priority Streamgages						
	Site funded by NSIP						
		STATION SW TOTAL:					
08048000	W. Fork Trinity River at Fort Worth, TX	QCONT	0	1.00	\$0	\$0	\$0
	Funded by Federal Priority Streamgages						
	Weather Station, Operation & Maintenance	WSTAT	1	1.00	\$0	\$5,000	\$5,000
		STATION SW TOTAL:					
08048543	W. Fork Trinity River at Beach St. Fort Worth, TX						
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	
	Site funded by Trinity River Compact						
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
		STATION SW TOTAL:					\$1,500
08048970	Village Ck at Everman, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$5,250	\$11,050	
		STATION SW TOTAL:					\$16,300
08049200	Lake Arlington at Arlington, TX						
	Reservoir Elevation	RES-E	1	1.20	\$0	\$7,100	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	
		STATION SW TOTAL:					\$8,600

08062575	Trinity River at Dosser							
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$16,300		
	STATION SW TOTAL:							\$16,300
08062700	Trinity River at Trinidad, TX							
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0		
	Funded by Federal Priority Streamgages							\$0
	STATION SW TOTAL:							
08062800	Cedar Creek nr Kemp, TX							
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0		
	Funded by Federal Priority Streamgages							\$0
	STATION SW TOTAL:							
08062895	Kings Creek at H 34 nr Kaufman, TX							
	Full Range Streamflow Station	QCONT	1	1.1	\$5,700	\$10,600		
	STATION SW TOTAL:							\$16,300
08063010	Cedar Creek Reservoir near Trinidad, TX							
	Reservoir Contents	RES-C	1	1.05	\$0	\$8,300		
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500		
	Wind Speed and Direction	WIND	1	1.00	\$0	\$1,500		
	STATION SW TOTAL:							\$11,300
08063100	Richland Creek near Dawson, TX							
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,300		
	STATION SW TOTAL:							\$16,300
08063460	Richland Creek at CR 0030, TX							
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,300		
	STATION SW TOTAL:							\$16,300
08063600	Lake Waxahachie near Waxahachie							
	Reservoir Elevation	RES-E	1	1.00	\$0	\$6,750		
	STATION SW TOTAL:							\$6,750
08063800	Waxahacie Creek near Bardwell, TX							
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,300		
	STATION SW TOTAL:							\$16,300
08064510	Halbert Lake near Corsicana, TX							
	Reservoir Elevation	RES-E	1	1.00	\$0	\$6,750		
	STATION SW TOTAL:							\$6,750
08064550	Richland-Chambers Reservoir near Kerens, TX							
	Reservoir Contents	RES-C	1	1.00	\$0	\$7,900		
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500		
	Wind Speed and Direction	WIND	1	1.00	\$0	\$1,500		
	STATION SW TOTAL:							\$10,900

08064570	Trinity Rv at Hwy 287 nr Cayuga, TX									
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,300				
	STATION SW TOTAL:							\$16,300		
	Streamflow Measurements Below Benbrook Waterworks									
	Streamflow Measurements Below the Water Supply Outlets	QMEAS	1	1	\$0	\$15,000				
	STATION SW TOTAL							\$15,000		
	SURFACE WATER TOTAL							<u>\$33,750</u>	<u>\$318,410</u>	<u>\$352,160</u>

003: WATER QUALITY PROGRAM

8047050

	Mary's Creek at Benbrook, TX							
	O&M of 5-parameter Water-Quality Monitor T, SC, DO, pH, Turb.	INSTALL	1	1	\$25,000	\$47,450		
	O&M of 5-parameter Water-Quality Monitor T, SC, DO, pH, Turb.	WQMON5	0.5	0.9	0	17550		
								\$90,000

08048000

	W. Fork Trinity River at Fort Worth, TX									
	O&M of 5-parameter Water-Quality Monitor T, SC, DO, pH, Turb.	WQMON5	1	0.9	\$0	\$39,000	\$39,000			
	WATER QUALITY TOTAL							<u>\$25,000</u>	<u>\$104,000</u>	<u>\$129,000</u>

PROJECT	USGS FUNDS	TRWD FUNDS	TOTAL COST
001: SURFACE WATER	\$33,750	\$318,410	\$352,160
003: WATER QUALITY	\$25,000	\$104,000	\$129,000
GRAND TOTAL	<u>\$58,750</u>	<u>\$422,410</u>	<u>\$481,160</u>

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 12

DATE: September 20, 2022

SUBJECT: Consider Approval of Discretionary Services Agreement with Oncor Electric Delivery Company LLC for Initial Routing and Design of Electrical Transmission Main to IPL Project Lake Palestine Pump Station

FUNDING: Bond Fund

RECOMMENDATION:

Management recommends approval of a Discretionary Services Agreement (DSA) **in an amount not to exceed \$150,000** with Oncor Electric Delivery Company LLC for initial routing and design of a 138-kV electrical transmission main to the IPL Project Lake Palestine Pump Station (LP1) site for the purpose of providing electrical power for the pump station and appurtenances.

DISCUSSION:

Currently, the site of the the future LP1 pump station does not have electrical service. This project will identify the desired route of the transmission line, the location and equipment specification of the intertie to existing Rayburn Electric Cooperative transmission line, and the location and equipment specification of the transmission main at the LP1 site. Once the DSA is completed, the District will execute a Facilities Extension Agreement (FEA) with Oncor for the final design and construction of the Transmission Main. This DSA is needed to authorize Oncor to begin route planning. Oncor will commence work upon this project immediately following receipt of the executed DSA, and will lead to an FEA to begin construction of the transmission main in 2023. This IPL pump station is a Dallas Water Utility facility, and is fully paid for by the City of Dallas.

This item was reviewed by the Construction and Operations Committee on September 16, 2022.

Submitted By:

Zachary Huff, P.E.
Water Resources Engineering Director

Discretionary Service Agreement
TRWD - _____

This Discretionary Service Agreement (“DSA” or “Agreement”) is made and entered into _____ (the “Effective Date”), by Oncor Electric Delivery Company LLC (“Oncor” or “Company”), a Delaware limited liability company and distribution utility, and Tarrant Regional Water District (“TRWD” or “Customer”), a Water Control and Improvement District, each hereinafter sometimes referred to individually as a “Party” or both referred to collectively as the “Parties”. In consideration of the mutual covenants set forth herein, the Parties agree as follows:

1. **Discretionary Services to be Provided** – Company agrees to provide, and Customer agrees to pay for, the discretionary services described in Exhibit A (“Discretionary Services”) in accordance with this Agreement. The description of the Discretionary Services to be provided, the applicable rate schedule(s), the location at which the Discretionary Services will be provided, the cost and scheduling of the Discretionary Services, and any supplemental terms and conditions applicable to such services will be contained in Exhibit A.
2. **Nature of Service and Company’s Retail Delivery Service Tariff** -- Any Discretionary Services covered by this Agreement will be provided by Company, and accepted by Customer, in accordance with applicable Public Utility Commission of Texas (“PUCT”) Substantive Rules and Company’s Tariff for Retail Delivery Service (including the Service Regulations contained therein), as it may from time to time be fixed and approved by the PUCT (“Company’s Retail Delivery Tariff”). During the term of this Agreement, Company is entitled to discontinue service, interrupt service, or refuse service initiation requests under this Agreement in accordance with applicable PUCT Substantive Rules and Company’s Retail Delivery Tariff. Company’s Retail Delivery Tariff is part of this Agreement to the same extent as if fully set out herein. Unless otherwise expressly stated in this Agreement, the terms used herein have the meanings ascribed thereto in Company’s Retail Delivery Tariff.
3. **Discretionary Service Charges** -- Charges for any Discretionary Services covered by this Agreement are determined in accordance with Company’s Retail Delivery Tariff. Company and Customer agree to comply with PUCT or court orders concerning discretionary service charges.
4. **Term and Termination** -- This Agreement becomes effective upon the Effective Date and will thereafter continue in effect until terminated in accordance with its terms. Termination of this Agreement does not relieve Company or Customer of any obligation accrued or accruing prior to termination.
5. **No Other Obligations** -- This Agreement does not obligate Company to provide, or entitle Customer to receive, any service not expressly provided for herein. Customer is responsible for making the arrangements necessary for it to receive any further services that it may desire from Company or any third party.
6. **Governing Law and Regulatory Authority** -- This Agreement was executed in the State of Texas and must in all respects be governed by, interpreted, construed, and enforced in accordance with the laws thereof. This Agreement is subject to all valid, applicable federal, state, and local laws, ordinances, and rules and regulations of duly constituted regulatory authorities having jurisdiction.

7. **Amendment** --This Agreement may be amended only upon mutual agreement of the Parties, which amendment will not be effective until reduced to writing and executed by the Parties. But changes to applicable PUCT Substantive Rules and Company's Retail Delivery Tariff are applicable to this Agreement upon their effective date and do not require an amendment of this Agreement.

8. **Entirety of Agreement and Prior Agreements Superseded** -- This Agreement, including all attached Exhibits, which are expressly made a part hereof for all purposes, constitutes the entire agreement and understanding between the Parties with regard to the service(s) expressly provided for in this Agreement. The Parties are not bound by or liable for any statement, representation, promise, inducement, understanding, or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof not set forth or provided for herein. This Agreement replaces all prior agreements and undertakings, oral or written, between the Parties with regard to the subject matter hereof, and all such agreements and undertakings are agreed by the Parties to no longer be of any force or effect. It is expressly acknowledged that the Parties may have other agreements covering other services not expressly provided for herein, which agreements are unaffected by this Agreement.

9. **Notices** -- Notices given under this Agreement are deemed to have been duly delivered if hand delivered or sent by United States certified mail, return receipt requested, postage prepaid, to:

(a) If to Company:

Oncor Electric Delivery Company LLC
Attn: Robert Holt
Director, Transmission Services
777 Main Street
Suite 1319
Fort Worth, Texas 76102
Email: Robert.Holt@oncor.com

(b) If to Customer:

TRWD
Attn: _____
Address
City/State/Zip

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other.

10. **Invoicing and Payment** – Invoices for any Discretionary Services covered by this Agreement will be mailed by Company to the following address (or such other address directed in writing by Customer), unless Customer is capable of receiving electronic invoicing from Company, in which case Company is entitled to transmit electronic invoices to Customer.

TRWD
Attn: _____
Address
City/State/Zip

If Company transmits electronic invoices to Customer, Customer must make payment to Company by electronic funds transfer. Electronic invoicing and payment by electronic funds transfer will be conducted in accordance with Company's standard procedures. Company must receive payment by the due date specified on the invoice. The timing of payment and payment of interest, if any, shall be governed by Texas Government Code Chapter 2251, the Prompt Payment Act.

11. **No Waiver** -- The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights, or duties imposed upon the Parties.

12. **Taxes** -- All present or future federal, state, municipal, or other lawful taxes (other than federal income taxes) applicable by reason of any service performed by Company, or any compensation paid to Company, hereunder must be paid by Customer.

13. **Headings** -- The descriptive headings of the various articles and sections of this Agreement have been inserted for convenience of reference only and are to be afforded no significance in the interpretation or construction of this Agreement.

14. **Multiple Counterparts** -- This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

15. **Other Terms and Conditions** -- The terms and conditions set forth in Exhibit A are hereby incorporated herein by this reference.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their respective duly authorized representatives.

ONCOR ELECTRIC DELIVERY COMPANY LLC TARRANT REGIONAL WATER DISTRICT

BY: _____
Signature

BY: _____
Signature

NAME: Robert F. Holt
Print or type

NAME: _____
Print or type

TITLE: Director, Transmission Services

TITLE: _____

DATE: _____

DATE: _____

EXHIBIT A

Discretionary Services Request: The Discretionary Services to be provided by Company hereunder shall be limited to the Discretionary Services specifically authorized by Customer in accordance with this Agreement.

Discretionary Services Rate: The Discretionary Services under this Agreement shall be provided in accordance with Rate Schedule DD26 - Miscellaneous Discretionary Service Charge in Company's Retail Delivery Tariff, which may from time to time be amended or succeeded.

Discretionary Services Scope: Customer requests 138 kV transmission service from a proposed Rayburn Electric Cooperative's ("Rayburn") owned four breaker ring bus switching station ("Rayburn Station"), to be constructed in Rayburn's Blackburn – Coffee 138 kV transmission line ("Rayburn Transmission Line"), via two (2) new Company owned radial 138 kV transmission lines ("Company Transmission Line(s)"), to be constructed from the Rayburn Station to the Customer site located at the following approximate coordinates: _____; _____ ("Customer Site"). The scope of the Discretionary Services, associated with this Customer request, to be provided hereunder may include, but not be limited to, the following activities, to be performed by Company and/or Rayburn associated with the Rayburn Station and Company Transmission Lines ("Discretionary Services Scope"):

- single route right of way ("ROW") identification and pre-acquisition activities, including, but not limited to, collecting landowner information; performing limited title research; conducting legal activities; conducting property owner meetings; performing market studies; conducting landowner negotiations, and obtaining landowner agreement to provide easements and/or fee-owned property
- preliminary engineering and design
- preliminary estimates
- preliminary project schedule

Cost of Discretionary Services: The financial security to be provided by Customer hereunder to secure Company's and Rayburn's Actual Cost (defined below) to perform the Discretionary Services Scope specified above is \$150,000.

Services not Included: The Discretionary Services Scope hereunder does not include, without limitation, the following activities:

- Procurement of land and/or land rights for the Rayburn Station site and/or the Company Transmission Line ROW, including, but not limited to, performing surveys, performing survey reviews and exhibit preparation; finalizing easements and/or purchase documents, unless specifically authorized in accordance with this Agreement
- Preparation, filing, litigating, and executing an application for a Certificate of Convenience and Necessity ("CCN") ("CCN Application"), unless specifically authorized in accordance with this Agreement
- ERCOT approvals
- PUCT approvals
- other regulatory approvals
- construction

Supplemental Terms & Conditions:

1. Upon the execution of this Agreement and receipt of financial security, in accordance with this Agreement, in the amount of \$150,000, Company and Rayburn will proceed with the Discretionary Services Scope specified above as necessary to identify a potential Rayburn Station site and Company Transmission Line ROW acceptable to Oncor, Rayburn, and Customer. However, Company shall notify Customer if Actual Costs associated with the Discretionary Services Scope are expected to exceed \$150,000 during the term of this Agreement. If, upon such notification, Customer desires Company and/or Rayburn to complete the Discretionary Services Scope, the Parties shall amend this Agreement to increase the financial security amount specified in this paragraph to an amount necessary to securitize such increase in costs.
2. Company shall not proceed with the procurement of land and/or land rights for the Rayburn Station site and/or the Company Transmission Line ROW, including, but not limited to, performing surveys, performing survey reviews and exhibit preparation; and finalizing easements and/or purchase documents, without Customer's express written consent. If Customer consents to the procurement of land and/or land rights for the Rayburn Station site and/or the Company Transmission Line ROW, Customer shall provide Company written notice to proceed with such procurement. Oncor and/or Rayburn will not proceed with the procurement of land and/or land rights for the Rayburn Station site and/or the Company Transmission Line ROW without Customer's prior written notice to proceed and an increase in the financial security, in accordance with this Agreement, to an amount necessary to securitize such procurement.
3. If Company determines that a CCN will be required to provide the service requested by Customer, Company agrees to notify Customer of such determination as soon as practicable. Discretionary Services necessary to prepare, file, litigate, and execute a CCN Application shall not proceed without Customer's express written consent. If Customer consents to Company proceeding with a CCN Application, Customer shall provide Company written notice to proceed with such CCN Application. Oncor will not proceed with a CCN Application without Customer's prior written notice to proceed and an increase in the financial security, in accordance with this Agreement, to an amount necessary to securitize the Discretionary Services necessary to prepare, file, litigate, and execute the CCN Application, including, but not limited to, the services necessary to (i) determine the potential routing alternatives for the Transmission Lines; (ii) perform all activities necessary to prepare the CCN Application for submission to the PUCT to seek regulatory approval for construction of the Transmission Lines; (iii) perform all activities necessary to obtain approval of the CCN application, and (iv) perform all activities necessary to acquire the land rights, but not the acquisition thereof, specified herein or otherwise required to construct and operate the Transmission Lines, the Rayburn Station, and an access road to the Rayburn Station, if the CCN Application is approved.
4. The Company facilities and Rayburn facilities specified in a Facilities Extension Agreement "FEA" between Company and Customer may be different from the facilities specified in this Agreement.
5. This Agreement does not obligate Company or Rayburn to construct any facilities. Construction of facilities will be addressed in an FEA.

6. Security Arrangement Details - In conjunction with Customer's payment obligations to Company pursuant to this Agreement, on or before ten (10) business days from the Effective Date of this Agreement, and at all times through the earlier of (i) one hundred-twenty (120) days after the termination of this Agreement, or (ii) the date Customer has fully paid its obligations under this Agreement as a result of the termination of this Agreement, or (iii) the date that Customer provides the security required under an FEA between the Parties that supersedes this Agreement ("Expiration Date"), Customer shall cause to be maintained in full force and effect security in the form of a cash deposit. The amount of financial security required hereunder is specified under "Supplemental Terms & Conditions" of this Exhibit A. Any return of the cash deposit shall include interest at a rate applicable to customer deposits as established from time to time by the PUCT or other Governmental Authority. If Customer does not establish and maintain the financial security required herein, and such default is not cured within ten (10) business days after receipt of written notice, Company may terminate this Agreement upon written notice to Customer. If this Agreement is terminated for any reason, then Customer shall pay Company all Actual Costs (defined below) incurred by Company in accordance with this Agreement as of the date of termination. In such event, Company shall invoice Customer and Customer shall pay such costs within thirty (30) days after the date of such invoice, and, in such event, Company shall return the financial security within thirty (30) days after Customer's payment of the invoice. Notwithstanding the foregoing, in the event of termination of this Agreement, Company may draw upon the security to satisfy the Actual Costs incurred by Company, in accordance with this Agreement, as of the date of termination and return any balance of security to Customer within thirty (30) days thereafter. If a Customer payment to Company of Company's Actual Cost exceeds Company's Actual Cost, Company shall refund the payment amount in excess of Company's Actual Cost to Customer within thirty (30) days after Company's receipt of such payment.

7. Subject to the termination rights under section 12 below, This Agreement will terminate on the earlier to occur of (a) the date upon which Customer terminates this Agreement by providing ten (10) days written notice to Company of such termination, (b) the date upon which Company terminates this Agreement in accordance with paragraph 6 above, or (c) the effective date of an FEA between Company and Customer which supersedes this Agreement.

If this Agreement is terminated in accordance with sections (a) or (b) of the preceding paragraph, Company will invoice Customer and Customer hereby agrees that it will pay Company all Actual Costs (defined below) incurred by Company in accordance with this Agreement. If this Agreement is terminated in accordance with section (c) of the preceding paragraph, then the FEA will constitute the entire agreement between the Parties with reference to the subject matter hereof, and will supersede this Agreement and all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. Termination of this Agreement shall not relieve Customer of its payment obligations to Company under this Agreement.

8. Unless Customer and Company mutually agree otherwise pursuant to an FEA, upon termination of this Agreement, Company will invoice Customer and Customer hereby agrees that it will pay Company all Actual Costs (defined below) incurred by either Company or Rayburn in accordance with this Agreement. Company's and Rayburn's Actual Costs may be netted against Customer's financial security. Termination of this

Agreement shall not relieve Customer of its payment obligations to Company under this Agreement.

9. "Actual Costs" for purposes of this Agreement shall include Company's and Rayburn's actual out of pocket expenditures incurred, including expenditures committed to be incurred, in accordance with this Agreement, that either Company or Rayburn is unable to avoid using commercially reasonable steps and Good Utility Practice (as defined in Company's Retail Delivery Tariff). Said Actual Costs shall include the normal loadings that Company and Rayburn apply to projects of this nature in accordance with Good Utility Practice, which loadings shall include, but not be limited to, (a) sales taxes and (b) labor, materials, equipment, and transportation overhead. Company shall submit to Customer an itemized invoice of Actual Costs which are the responsibility of Customer hereunder. In the event Customer disputes any invoice submitted by Company under this Agreement, Company shall work reasonably and cooperatively with Customer to resolve such dispute and shall provide such supporting documentation to Customer as reasonably requested. Company and Rayburn will not incur Actual Costs that exceed one hundred ten percent (110%) of the amount of financial security required to be provided hereunder without the prior written consent of Customer; provided however, that if such consent is not provided, Company and Rayburn shall cease all Discretionary Services under this Agreement until (a) such consent is provided or (b) this Agreement is terminated in accordance with its terms.
10. Customer may not assign the Agreement without Company's prior written consent, which Company will not unreasonably delay, condition or withhold; provided however, that Customer may assign this Agreement or any rights under it with prompt written notice to Company, and without Company's prior written consent, to any Affiliate of Customer with an equal or greater credit rating and with the legal authority and operational ability to satisfy Customer's obligations under this Agreement. Any attempted assignment that violates this paragraph is void and ineffective. Any assignment under this Agreement shall not relieve Customer of its obligations, nor shall Customer's obligations be enlarged, in whole or in part, by reason thereof.
11. Confidentiality - Company and Customer acknowledge that this Agreement contains Confidential Information. Company and Customer are required to maintain the confidential nature of this Agreement and any Confidential Information contained in this Agreement in accordance with applicable law.
12. Termination:
 - (a) Either Party may terminate this Agreement if the other Party (a) breaches this Agreement and, if it can be cured, does not cure such breach within thirty (30) days' written notice, or (b) becomes or is declared insolvent, is the subject of any proceedings relating to its liquidation or insolvency or for the appointment of a receiver, conservator or similar officer, or makes an assignment for the benefit of all or substantially all of its creditors or enters into any agreement for the composition, extension, or readjustment of all or substantially all of its obligations. The termination right herein shall be in addition to and not in limitation of any rights or remedies existing hereunder or at law or in equity.
 - (b) Upon the termination of this Agreement for any reason, Customer's sole obligation

shall be to pay for the costs of any previously authorized Discretionary Services rendered by either Company or Rayburn through the date of such termination and any such services authorized by Customer to facilitate a smooth transition upon termination. Except as provided in this section, Customer shall have no further obligation hereunder, and neither Party shall be liable for indirect, incidental or consequential damages, including but not limited to, loss of use, revenue or profit. The Parties agree to cooperate to facilitate a smooth transition upon termination of this Agreement.

13. Nothing in this Agreement shall be interpreted to constitute a waiver of Customer's sovereign or governmental immunity.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 13

DATE: September 20, 2022

SUBJECT: Consider Approval of Contract with The National Theatre for Children, Inc., for Elementary School Water Conservation Education Services

FUNDING: Fiscal Year 2023 Revenue Fund Budget - \$155,000

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed \$155,000** with The National Theatre for Children, Inc., for elementary school water conservation education services.

DISCUSSION:

The 2019 water conservation plan update identified a goal to increase youth education programs to expand knowledge of the importance of water services and water conservation. Staff started working with The National Theatre for Children (NTC) in 2020 and recently served 56 elementary schools in 10 school districts with livestream events and on-demand recordings. A total of 19,182 students and 493 teachers participated in *The Water Pirates of Tarrant County* program with custom lessons on “The Amazing Ways We Use Water,” “Water’s Incredible Journey,” “How We Move Water Where We Need It,” and “How We Can Save and Protect Water”. Each student received a custom printed bilingual playbook and had access to a website with Tarrant Regional Water District specific information. Teachers rated the program 6.87 on a 7-point scale for overall educational value and 6.60 for likelihood that students will retain the material. Staff recognizes the positive response, broad reach and overall teacher-student engagement of the program and requests to move forward with another year of programming.

The proposed FY23 agreement with NTC will provide education program services for approximately 80 schools and 25,000 students. Live in-school performances will be prioritized with on-demand videos also available.

The National Theatre for Children (NTC) is a certified prime vendor. There are no other subcontracting opportunities for this project.

This item was reviewed by the Construction and Operations Committee on September 16, 2022.

Submitted By:

Linda Christie
Government Affairs Director

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 14

DATE: September 20, 2022

SUBJECT: Consider Approval of Contract with Tinker LLC for Elementary School Water Conservation Education Services

FUNDING: Fiscal Year 2023 Revenue Fund Budget - \$75,000

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed \$75,000** with Tinker LLC for elementary school water conservation education services.

DISCUSSION:

The 2019 water conservation plan update identified a goal to increase youth education programs to expand knowledge of the importance of water services and water conservation. Staff recently partnered with Tinker LLC (Tinker) to develop the *Conservation Captains Water Conservation Program* for 5th graders. In spring 2022, we served 1,501 fifth-grade students in 16 elementary schools in 6 school districts with teacher-led lessons and take-home water conservation kits. This coming school year, the program will consist of 4 customized lessons focused on “Creating Water Sources,” “Our Water Supply System,” “Water, Weather & Climate,” and “Conserving Water for Today & Tomorrow.” Each student will receive a shower timer, a bucket to reuse shower water on plants outdoors, a pan scraper, toilet leak tabs, and water flow meter bag. Students also will have access to digital learning resources, optional outdoor or indoor advanced saver kits, student challenges, and a video contest. Additionally, teachers can earn mini-grants for classroom supplies based on participation levels.

The proposed FY23 agreement with Tinker is anticipated to provide education program services for approximately 3,863 students in the 2022-2023 school year. Services include recruitment, materials assembly and shipment, participant support, data collection, teacher evaluation, and reporting. The program includes matching funds from customer cities in the amount of \$46,340 and \$28,660 is dedicated for additional school participation.

Tinker is not a certified prime vendor. There are no other subcontracting opportunities.

This item was reviewed by the Construction and Operations Committee on September 16, 2022.

Submitted By:

Linda Christie
Government Affairs Director

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 15

DATE: September 20, 2022

SUBJECT: Consider Approval Contract with HNTB for Completion of Pedestrian Bridge Design for the Central City Flood Control Project

FUNDING: Fiscal Year 2023 General Fund Budget - \$2,962,188

RECOMMENDATION:

Management recommends approval of a design contract **in an amount not-to-exceed \$2,962,188** with HNTB for completion of the Central City Flood Control Project value-engineered pedestrian bridges.

DISCUSSION:

The north and south promenade park pedestrian bridges previously were being designed by Stout/Gensler in a contract assigned to the District in December 2019. HNTB performed a value engineering effort of the Stout/Gensler design in order to validate the design work completed to date on the pedestrian bridges and identified up to \$12 million that could be captured as savings during construction. HNTB is to recommend design changes, alternatives or solutions that keep the bridges associated with the north and south parks in budget but maintain the look and feel of the original concepts, maintain connectivity, meet the hydrology and hydraulic requirements, and capitalize on the components that have Federal funding dollars.

The original designs were at a 60% level of design at the time of the HNTB value-engineering review. The HNTB cost saving recommendations change the bridge designs and have now pushed the design level back considerably. The Corps is about to let a contract to complete the design of the north section of the Bypass from a 60% level to final plans and specs. Before the Corps can begin the final design work they need the pedestrian bridges to likewise be at a 60% level of design so that the final design of both the north pedestrian bridge and the north section of the bypass channel can be completed in an integrated fashion.

For this reason, the completion schedule for the pedestrian bridge design has become critical to remain on schedule for the U.S. Army Corps of Engineers design and construction efforts on the bypass channel. In order for the pedestrian bridge cost saving changes to be captured and the final design to be incorporated into the channel appropriately, HNTB needs to begin their efforts immediately to get the bridges back to a 60% level of design to then allow for full integration to plans and specs with the Corps final design contract of the bypass channel. The bridges must be designed and constructed in concert with the flood wall for structural integrity.

It was determined that HNTB is a qualified and recommended engineering firm and offers the best value. HNTB has subcontracted portions of the contract to four (4) subcontractors resulting in an overall Diverse Business participation commitment of 15.9%. The following subcontractors are proposed as part of this contract: Civil Design & Construction (CD&C); Abadi Accessibility (RAS); HVJ & Associates (HVJ); Yaggi Engineering, Inc. (YAGGI).

This item was reviewed by the Recreation Committee on September 15, 2022 and the Construction and Operations Committee on September 16, 2022.

Submitted By:

Woody Frossard
Program Director
Panther Island/Central City Flood Control Project

SCOPE OF SERVICES

FWCC PEDESTRIAN BRIDGES

GENERAL

The HNTB Corporation led consulting team shall provide architectural and engineering professional services for the bridges and architectural features associated with the Fort Worth Central City Pedestrian Bridges (Construction Documents (CD) Phase). The bridges and architectural features for the Project include:

- Pedestrian bridge structures for North and South Promenade Parks
 - Consisting of filler beam superstructure or concrete beams with concrete deck (as determined during Concept Development) that carry stainless steel guardrail/handrail detailing along with lighting features
- 2 terraced seating structures
 - Consisting of concrete with stainless steel guardrail/handrail detailing along with stairway lighting features
- 3 shade canopy structures
 - Consisting of tensile fabric for solar protection along with lighting features.

It is anticipated that the construction documents prepared in this scope of work will be inserted into a larger construction project being prepared by the United States Army Corps of Engineers (USACE) as a separate Volume for bidding. Pedestrian Bridge plans and specifications must be signed and sealed by HNTB for incorporation. Plans and specifications for the Canopies (less the foundations and any below grade requirements) will be prepared such that they could be easily separated at the Final Document stage and signed and sealed for bidding at a later date.

The project shall be designed and constructed in accordance with the City of Ft. Worth and Federal standards listed below (unless otherwise agreed upon during Preliminary Engineering):

- Specifications
 - MasterFormat Classification System
 - SectionFormat Organization System
 - Unified Facilities Guide Specifications
 - SPECSINTACT Program
- Architectural
 - City of Fort Worth Electrical Code
 - 2017 National Electrical Code with Local Amendments
 - City of Fort Worth Construction Codes (where applicable)
 - 2015 International Building Code with Local Amendments
 - 2015 International Mechanical Code with Local Amendments
 - 2015 International Energy Code with Local Amendments
 - 2015 International Plumbing Code with Local Amendments
 - 2015 International Fire Code with Local Amendments
 - Texas Accessibility Standards (TAS) 2012
 - ACI Building Code Requirements for Reinforced Concrete
 - Fort Worth Central City (FWCC)

- Architectural Design Guidelines, Fort Worth Bypass Channel, USACE-Fort Worth District, 29 January 2010
- Recreational User and Emergency Requirements Report, Upper Trinity River, Fort Worth, TX, 21 October 2013
- Structural (related to bridges)
 - AASHTO LRFD Bridge Design Specifications 9th Edition
 - LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition, 2015 Interim Revisions
- Geotechnical
 - USACE Engineering Manuals
 - AASHTO LRFD Bridge Design Specifications 8th Edition
 - United Facilities Guidelines
- FHWA Manuals
- TRWD Water Quality Guidance Manual
- Design must be performed in accordance with the requirements in ER 1110-2-1150, reviewed in accordance with ER 1110-1-12, and subject to the applicable peer review guidance.
- Reviews will be performed in accordance with the Modified Central City Project, Design and Construction Phases, Revised Review Plan.
- FWCC Bypass Channel Design Guidelines, Revision 2 (dated 17 Dec 12)

BRIDGES AND ARCHITECTURAL FEATURES – GENERAL SERVICES

CONSTRUCTION DOCUMENTS (CD) PHASE

Task 1 – Preliminary Engineering

1.1 Data Collection

Collect and review existing data, including the following:

- Most recent project design criteria
- Most recent project Geotechnical Data Report
 - Review and verify existing borings and existing laboratory testing
 - Determine if and where additional borings may be required (will be considered additional services, if required)
- Most recent project Hydraulic Report and latest HEC RAS model
- Project Survey (provided by TRWD)
- USACE Floodwall requirements
- Two TRWD office visits to obtain available and relevant existing data for the final design of the Project, which includes design requirements of TRWD and other governmental authorities having jurisdiction over the Project.
- Multidiscipline review of ProjNet/DrChecks comments provided to-date.

1.2 Design Criteria

Update project specific design criteria, if necessary, and as agreed upon with TRWD. This will include criteria for physical features, accessibility, clearances, serviceability, bridge design loads, terrace design loads, canopy design loads, railing criteria, lighting criteria, hydraulic criteria, foundation criteria, materials and references to applicable engineering manuals and regulations, guide

specifications and other sources of criteria. Utilize, as applicable, the design criteria developed by others.

1.3 Concept Development

Develop aesthetic concepts for the bridge and terrace structures during the preliminary engineering phase for the following:

- Bridge Superstructure (evaluate precast girder and filler beam options)
- Bridge Substructure
- Terrace Structures/North Connection
- Lighting

Develop applicable schematic sketches of the proposed bridge concepts to be included in preliminary engineering information. (Assume up to 10 figures)

Concepts recommended will accomplish the following goals:

- Deliver the Hydrology and Hydraulics requirements;
- Stay within budget;
- Maintain the look and feel of the original concept;
- Maintain connectivity;
- And Capitalize on the components that have Federal participation.

1.4 Project Layout and Design

Prepare preliminary layout and design to depict the preferred alternative selected during the Concept development. Preliminary investigation and design shall include the following:

- North and South Bridge Geometry
 - Investigate bridge deck curvature to accommodate superstructure.
 - Investigate bridge profiles to meet vertical clearances.
 - Investigate pier locations and column/cap geometrics
 - Investigate bridge tie-ins to floodwalls and levees (Hard Side and Soft Side)
- North and South Terrace Structures
 - Investigate tie-ins to floodwall
- North and South Canopy Structures
 - Investigate tie-ins to floodwall and bridge structures
 - Investigate canopy geometry with respect to bridges and floodwalls
 - Investigate canopy columns on bridges and floodwalls
 - Investigate bridge/floodwall expansion joints with respect to the canopy structures.
 - Investigate drainage collection and discharge per previously made DrChecks comments and in accordance with TRWD Water Quality Guidance Manual
- North Connection
 - Investigate alternative/elimination of the 60% DDR proposed connection wall by modifying bridge geometry, ramp geometry and terrace layout.

Task 2 – Bridge Design

2.1 Layouts

- Prepare Bridge Layouts sheets (Plan and Elevation Views).
- Revise Preliminary Bridge Layouts sheets per TRWD Preliminary Engineering review comments and resubmit to TRWD for approval.

2.2 Superstructure

Produce final bridge superstructure design, details and standard plans:

- Girder Design
 - Provide Girder Details
 - Provide Girder Layouts
- Deck Design
 - Curbs will be provided at each edge of deck to hide the ADA ramps.
 - Provide Slab Plans
 - Provide Typical Sections
- Expansion Joint Design
 - TxDOT standard: SEJ-B expansion joint with cover plate (as required)
- Bearing Design
 - Reinforced elastomeric bearings (if applicable)
- Railing Design
 - ADA compliant guardrail type with similar appearance to railing developed under USACE scope
- Floodwall Tie-Ins
 - Coordinate details and loads with USACE for Tie-Ins
 - Provide bearings (as applicable) between superstructure and top of Floodwalls
- Canopy Tie-Ins
 - Provide Details

2.3 Substructure

Produce final bridge substructure design, details and standard plans:

- Abutments/Floodwall interface
 - Coordinate details and loads with USACE
 - Provide Cap and Backwall details.
- Piers
 - Provide Cap and Column Details
 - Provide Canopy Tie-In Details
- Foundations
 - Drilled Shaft Design and Details
 - Provide Footings only where necessary

2.4 General Bridge

Produce the following Miscellaneous Details:

- Global Structural Analysis bridge models
- Bridge Railing Details
- Bridge Lighting Details

- Bridge Drainage Details including collection and discharge to prevent erosion in accordance with TRWD Water Quality Guidance Manual
- Bridge Mounted Clearance Signs, only if applicable.
- Bridge Approach Details
- Canopy Column Details (at bridge-mounted locations)
- North Connection Details (as determined in Concept development)
- HNTB will provide the requirements for the Pedestrian Bridges to USACE for proper coordination.

Task 3 – Terrace and Canopy

3.1 Code Requirement Analysis

Make initial evaluation of building code and accessibility requirements and identify if changes to the previously prepared layouts for the terraces and canopy structures are needed. Assumes accessible route(s) will be provided to the terrace access aisles as part of the designs being developed by others.

- South Terrace
 - Previously prepared layout includes seating risers and stairs (on earth slope) with wheelchair spaces and companion seating located along upper row. No bench or individual seating provided. Informal seating will be on terraced concrete risers with approximate seating capacity for 128.
- North Terrace
 - Previously prepared layout includes seating risers and stairs constructed on-structure with wheelchair spaces located along bottom row. No bench or individual seating provided. Informal seating will be on terraced concrete risers with approximate seating capacity for 252.
 - Assumes that access to the space located under the terrace structure will be restricted to authorized personnel making periodic inspections. The west end of the structure will have heavy-duty tubular fence and/or gate to control access and allow air movement.
 - Scope will include analysis of code requirements for the space located under the terrace structure to be used for storage. Use limitations may apply. Storage of certain materials may require special accommodations such as fire suppression systems which are excluded from the scope of services.

3.2 Architectural Layouts and Details

Produce 3D digital model using REVIT or other approved software, as well as the following drawings for both North and South Terrace, associated stairways, and canopy structures:

- Site Plan
- Floor Plan and Partial Plan
- Architectural Reflected Ceiling Plans (RCP)
- Elevations
- Geometry Control Plans
- Sections
- Details

- Enlarged Plans, Sections, and Details of Terrace
- Enlarged Plans, Sections, and Details of Canopy
- Perspectives/ Axonometric Drawings

Provide and clearly define the necessary information including dimensions, names, orientation north arrow, floor elevations and for the elements of the related features and provide reference, by sheet number or symbols, to complementary data contained elsewhere in the plans.

3.3 Structural Layouts and Details

Produce final plans, elevations, sections and details for the following elements:

- North and South Terraces
 - Provide sufficient information to graphically indicate the size, shape, material, depths and elevations of footings and piles/shafts, columns, beams, walls, steps, slabs, slab depressions, slab openings, curbs etc. and all critical dimensions necessary for the layout of the Terrace Structures.
- North Canopy Structure (1)
 - Foundation Plans
 - Define geometry and design framing for the North canopy structure.
 - Prepare performance specification for the tensile fabric design and detail.
 - Prepare details necessary to address collection and discharge of stormwater in accordance with TRWD Water Quality Guidance Manual.
- South Canopy Structures (2)
 - Foundation Plans including coordination with bridge plans for canopy columns that are attached to the bridge structure.
 - Define geometry and design framing for the two South canopy structures.
 - Prepare performance specification for the tensile fabric design and detail.
 - Prepare details necessary to address collection and discharge of stormwater in accordance with TRWD Water Quality Guidance Manual.

3.4 Structural Calculations and Design

Perform structural calculations for the design of terraces and canopies.

Task 4 – Lighting

4.1 Lighting Calculations

Illumination design will be based on a photometric analysis using the lighting equipment determined during the preliminary engineering phase review process. Average maintained foot-candle levels and uniformity ratio on the use areas will be indicated on the calculations.

4.2 Plan Layouts and Details

Produce illumination plans and details for the following elements:

- Pedestrian Bridges

- LED lighted handrails to light the pedestrian walkways.
- Canopy Structures
 - Uplighted by LED fixtures with forward throw optics to evenly wash the structures with light and provide indirect lighting below.
 - LED cylinder downlights mounted to the underside of the canopy structure to provide lighting for seating areas below.
- Terraces
 - LED lights at stairways.
- North Connection Upper Walk and Ramp Walk
 - LED lights at walks.

4.3 Electric Service Coordination

This scope assumes the electrical service for lighting and general small loads will be 208/120V 3 phase 4 wire provided from designated promenade switchgear and lighting relay panels. Coordination for a separately metered service by ONCOR would not be required.

Controls will allow manual off/on, photocell off/on, and manual or photocell on/time clock off with the lighting circuits able to be controlled independently of each other.

The promenade switchgear, relay panels, and service (and Oncor coordination) would be included in the larger construction project being prepared by USACE and is excluded from our scope. HNTB will provide the requirements for the Pedestrian Bridges to USACE for proper coordination.

4.4 Circuit Calculations

Wire sizing and loads will be calculated based on the equipment selected and the layout. Circuits will be wired by zones; i.e., canopy, stairways, exterior bridge, and interior bridge. Each designated lighting segment or area will be controlled and serviced via the lighting relay panel. One relay per circuit conductor per zone. Relay panels will be located in promenade switchgear.

Task 5 – Hydrology and Hydraulics

The hydraulic investigation will be consistent with 1D HEC-RAS models previously performed for the project.

5.1 Hydrologic and Hydraulic Studies

The following will be performed during the Preliminary Engineering phase:

- Review and verify the following:
 - Proposed Drainage Area and flows including the By-Pass Channel from others
 - Proposed Design from others
 - HEC RAS model from others
- Update HEC RAS model with Final Design Solutions that achieve agreeable change in water surface elevation, as determined during Concept development:
 - Run HECRAS Model iteratively with proposed structures to determine Water Surface Elevations.

- Propose and model mitigation measures to achieve agreeable change in Water Surface Elevation depending on flows and limits of change, as determined during Concept development. Mitigation measures through the bridge design will be evaluated with USACE during concept development.
- Final Hydraulics Report will include the following:
 - Assumptions
 - Drainage Area Map/Hydrologic Computations
 - Hydraulic Computations
 - HEC RAS output reports

5.2 Drainage Plans

HNTB shall prepare the following drainage plan sheets:

- Drainage Area Plans
- Storm Drain Plans (including water quality requirements for runoff from canopy and bridge structures in accordance with applicable City of Fort Worth or TRWD Water Quality Guidance Manual)
- Water quality requirements will be coordinated with TRWD

5.3 Stormwater Pollution Prevention Plans (SW3P)

HNTB shall prepare the following drainage plan sheets

- SW3P Notes
- SW3P Layouts

Task 6 – Geotechnical

6.1 Geotechnical Investigations

HNTB shall perform the following geotechnical investigation services:

- Provide up to twelve (12) additional borings (60-ft long or 20-ft into rock), including boring plan for approval and required testing in accordance with USACE criteria, and as needed to supplement existing geotechnical information provided. The borings shall include 3" sampling.
 - Laboratory Testing program to include:
 - Moisture content
 - Atterberg limits
 - Percent passing No. 200 Sieve
 - Sieve Analysis and Hydrometer
 - Chemical Analysis (Sulfates, Chlorides & pH)
 - Free swell tests
 - One dimensional consolidation test
 - Unconsolidated Undrained Triaxial test
 - Unconfined Compressive Strength
- Boring locations shall be located with latitude, longitude, and elevation via GPS in the field and shall be denoted as approximate in the plans.
- Perform coordination and oversight associated with the additional borings.

6.2 Geotechnical Design

HNTB shall perform the following geotechnical design services:

- Development of soil and rock parameters for design

- Drilled shaft pier and abutment axial calculations
- Canopy foundation drilled shaft design
- Terrace spread footing bearing capacity design
- Approach embankment/wall evaluation (refers to north connection location)

Task 7 – Submittal Preparation

7.1 Miscellaneous Sheets

Prepare Title Sheet and Index of Sheets

7.2 General Notes

Prepare general notes and provide general notes in plans sheets where applicable.

7.3 Quantities and MII Cost Estimate

Tabulate quantities and establish unit costs for the work items.

- A preliminary construction cost estimate will be prepared during the Preliminary Engineering phase and the Progress submittal. This estimate is for planning purposes.
- Quantities and MII Cost Estimate will be provided at the Pre-final submittal, with any necessary updates in the Final submittal.

7.4 Specifications

Prepare technical provisions using *SPECSINTACT Program*

- Provide outline at Progress submittal
- Provide complete specification package at Pre-final submittal, with any necessary updates in the Final submittal.

7.5 Construction Time Duration

Develop Construction Time Duration using Primavera P6 for Final submittal.

7.6 Design Documentation Report (DDR)

Prepare DDR for Progress and Pre-final submittals, with any necessary updates in the Final submittal.

Task 8 – Quality Assurance/Quality Control (QA/QC)

8.1 Quality Assurance

The Project Quality Manager will develop the project quality plan, provide quality orientation for the team, and ensure compliance with the plan by project team members.

Quality Assurance reviews shall include discipline quality control checks, interdisciplinary reviews, independent technical reviews and quality assurance certification for each deliverable, as applicable.

HNTB shall respond to ProjNet/DrChecks comments in advance of plan review meetings, and will properly address all backchecks until comments are closed or resolved.

Task 9 – Coordination

9.1 Meetings

HNTB shall attend bi-weekly project meetings with TRWD during the construction document phase. Assume half the meetings will be attended in person while the remainder will be via conference call if work is satisfactory.

Plan review meetings will also be held with TRWD staff after their review of the Preliminary (15%), Progress (60%) and Pre-Final (95%) documents have been completed.

9.2 Perspective Sketches/Plan Renderings/Presentations

HNTB shall produce upon request non-photo realistic up to 30 perspective sketches/plan renderings to support meetings. It is anticipated that HNTB shall provide up to 15 non-photo realistic perspective sketch views/plan renderings in the preliminary engineering phase based on one 3D model for the north and south bridge areas. The remaining non-photo realistic perspective sketch views/plan renderings will be provided based on design revisions made to the 3D model for the north and south bridge areas. Upon request, HNTB will attend, present and/or prepare a presentation for the TRWD Board or other entity. If not requested, these documents will not be required or produced.

9.3 Hargreaves Coordination

HNTB will participate in up to four (4) meetings to coordinate the following Hargreaves “Parks Plan” deliverables:

- Vision/Kickoff meeting
- Aesthetic Guidelines (15% development)
- Bridge, Terrace and Canopy coordination with:
 - Site Plan
 - Grading and Drainage Plan
 - Utility Plan
 - Landscape Plan

9.4 USACE Coordination

HNTB will participate in up to twelve (12) meetings to coordinate the following with the USACE:

- Floodwall Tie-ins
 - Bridges
 - Terraces
 - Canopies
- Hydrology and Hydraulics
- Bridge Pier Foundations
- Bridge Abutment Foundations

9.5 Registered Accessibility Specialist (RAS) Coordination

HNTB will arrange and pay for consultations by a Texas Registered Accessibility Specialist (RAS) for the following:

- One initial meeting to determine applicable requirements particularly as it relates to the prior layout of terrace areas.
- One preliminary plan review during the Design Development.
- Plan review of final, signed plans and specifications.

Task 10 – Project Management

10.1 Contract Administration, Scheduling and Coordination of Design Professionals

- The Project Manager will serve as point of contact, maintain project schedule and budget, and be responsible for coordinating work of sub-consultants.
- Monthly invoices and progress reports will be prepared and submitted by the Project Manager.
- The Project manager will be responsible for workplan development and tracking progress of tasks, ensuring all submittal follow the QA process and meet the deliverable schedule deadlines.
- The Project manager will provide coordination of the daily activities of the project team via phone calls, web meetings, emails and in-person discussions.
- The Project Manager will prepare supporting materials for progress meetings, and record minutes and send to all attendees with any decisions noted.
- The Project Manager will prepare an agenda for each meeting and set meeting with appropriate personal. Following the meeting, the Project Manager will document meeting minutes and distribute them for review and record.

ADDITIONAL SERVICES

The following services may be provided as additional services if so requested and approved by the TRWD:

- Modifications to design concept due to requested changes beyond the Preliminary Engineering Submittal.
- Additional topographic survey required if HNTB cannot rely on or determines there is not enough detailed information in selected areas of the initial survey.
- Additional utility investigations required if HNTB cannot rely on or determines there is not enough detailed information.
- Photo-realistic renderings and video animations.
- Permit applications and fees.
- Bid Phase and Construction Phase Services.
- Future updates for Canopy breakout project, if required, at bidding time.
- Any design work outside this scope of services.

TRWD RESPONSIBILITIES

The following items shall be the responsibility of the TRWD as it relates to the scope of services identified in this proposal:

- Preparatory Surveys, Investigations, and Testing
 - TRWD will provide when available, if deemed necessary by HNTB, existing surveys, existing site investigations, existing tests or other studies prior to or in conjunction with the Notice to Proceed. Such surveys, investigations, test or studies shall include, but shall not be limited to, the following:

- Existing survey of the site, giving the grades and lines of the streets, pavements, and adjoining properties; the rights, restrictions, easements, boundaries, and contours of the structure site; existing utilities, and full information as to sewer, water, gas and electrical services; and a legal description of the property.
- Existing geotechnical and site investigation, along with any necessary testing related thereto, sufficient to determine all relevant conditions on the site, which may include: surface and subsurface conditions, and the presence and location of any existing hazardous materials or environmental conditions.
 - HNTB may rely upon the accuracy and completeness of any such surveys, investigations, test or studies furnished by TRWD
- Review and approval of the Preliminary Engineering (15%), Progress Submittal (60%), Pre-Final (95%) and Final construction documents.
- ProjNet/DrChecks access, setup and coordination.
- Attendance at project meetings, Hargreaves coordination meetings and USACE coordination meetings during the construction document phase and progress presentations.
- Coordination with USACE for bidding, solicitation, and selection.
- Inspection fee by Registered Accessibility Specialist (RAS) following completion of construction.
- Responsible for all Federal Permitting.

DELIVERABLES

Preliminary Engineering (15%)

- *Digital file on a CD*
- *Sketches and/or Renderings to support meeting (PDF)*
- *Initial Opinion of Probable Cost (Excel)*
- *Draft Hydraulics Report*
- *Meeting summary*

Progress Submittal (60%)

- *2 sets of (11x17 bond) construction drawings (Hard copy & PDF)*
- *2 sets of (8½x11) draft specifications (SpecsIntact, PDF)*
- *1 opinion of probable construction cost update (MII & PDF)*
- *2 copies of Design Documentation Report (DDR) (Hard copy & PDF)*
- *Digital files including CAD files in Microstation format*
- *2 sets of (8½x11) draft specifications (SpecsIntact, PDF)*
- *Final Hydraulics Report*
- *Meeting summary for coordination meetings*

Pre-Final (95%)

- *2 sets of (11x17 bond) construction drawings (Hard copy & PDF)*
- *2 sets of (8½x11) draft specifications (SpecsIntact, PDF)*
- *1 opinion of probable construction cost update (MII & PDF)*
- *2 copies of Design Documentation Report (DDR) (Hard copy & PDF)*
- *Digital files including CAD files in Microstation format*
- *Meeting summary for coordination meetings*

Final/Bid Documents

- *2 sets of (11x17 bond) construction drawings (Hard copy & PDF)*
- *2 sets of (8½x11) draft specifications (SpecsIntact, PDF)*
- *1 opinion of probable construction cost update (MII & PDF)*
- *2 copies of Design Documentation Report (DDR) (Hard copy & PDF)*
- *Digital files including CAD files in Microstation format*

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 17

DATE: September 20, 2022

SUBJECT: Executive Session

FUNDING: N/A

RECOMMENDATION:

Section 551.071 to Consult with Legal Counsel on a Matter in Which the Duty of Counsel Under the Texas Disciplinary Rules of Professional Conduct Clearly Conflicts with Chapter 551, Texas Government Code; and

Section 551.072 to Deliberate the Purchase, Exchange, Lease or Value of Real Property; and

Section 551.074 Regarding Personnel Matters

DISCUSSION:

- Conflict of duty of counsel
- Pending litigation
- Real property issues

Submitted By:

Alan Thomas
Deputy General Manager

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 18

DATE: September 20, 2022

SUBJECT: Consider Approval of Authorization to Exchange Land Located in the J. G. W. Clayton Survey, Abstract No. 150, Wise County, Texas and the C. B. Mixon Survey, Abstract No. 536, Wise County, Texas

DISCUSSION:

This agenda item is pending negotiations and is subject to review and approval by the TRWD Board of Directors.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 19

DATE: September 20, 2022

SUBJECT: Consider Approval of Acceptance of Conveyance of Approximately 1.08 acres of land located adjacent to Shelby at Northside Apartments and being a portion of Lot 1, Block 1, Riverfront Lofts Addition to the City of Fort Worth, Tarrant County, Texas

DISCUSSION:

This agenda item is pending negotiations and is subject to review and approval by the TRWD Board of Directors.

Next Scheduled Board Meeting

October 18, 2022 at 9:00 AM