

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 17<sup>th</sup> Day of September 2024 at 9:00 a.m.**

**Front Doors to the Main Admin Building at 800 East Northside Drive Will Open to the  
Public at 8:30 a.m. 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>.**

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**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. 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. 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 Meetings Held on August 19, 2024, and August 20, 2024**

**4. Consider Approval of Fiscal Year 2025 General Fund Budget - Sandy Newby, Chief Financial Officer**

**5. Vote to Adopt a Tax Rate of \$.0267/\$100 for Tax Year 2024 - Sandy Newby, Chief Financial Officer**

**6. Consider Approval of Fiscal Year 2025 Special Projects/Contingency Fund Budget - Sandy Newby, Chief Financial Officer**

**7. Consider Approval of Fiscal Year 2025 Revenue Fund Budget - Sandy Newby, Chief Financial Officer**

- 8. Consider Approval of a 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.

  - Consider Approval of Joint-Funding Agreement with U.S. Geological Survey for Gage Network Support Services
  - Consider Approval of Capital Expenditures
  - Consider Approval of Contract with kW Power Services, LLC for Annual Stand-by Generator Maintenance
  - Consider Approval of Contract with Presbyterian Night Shelter/UpSpire for Labor Services
  - Consider Approval of Contract with Whitmore and Sons for Grounds Maintenance
  - Consider Approval of Contracts with Republic, 3-P Trash Services, Frontier, and Waste Connections for Dumpster Service
- 9. Consider Approval of Contract with Freese and Nichols, Inc. for Design of Section 1D & 1E Pipelines and Arlington Outlet Improvements - Jason Gehrig, Infrastructure Engineering Director**
- 10. Consider Approval of Contract with V&A Consulting Engineers, Inc. for Corrosion Control Engineering Design Services for the Section 1D and 1E Pipeline and Arlington Outlet Valve Improvements Project - Jason Gehrig, Infrastructure Engineering Director**
- 11. Consider Approval of a Pre-Purchase of HVAC Equipment from Texas Air Systems for Benbrook Lake Pump Station Electrical Room Cooling Improvements - Jason Gehrig, Infrastructure Engineering Director**
- 12. Staff Updates**
  - Water Resources and Planning Update - Rachel Ickert, Chief Water Resources Officer
  - Grant and Other Cost Savings Initiatives - Jennifer Mitchell, Finance Director
- 13. Executive Session under Texas Government Code:**

Section 551.071 of the Texas Government Code, for Private Consultation with its Attorney about Pending or Contemplated Litigation or on a Matter in which the Duty of the Attorney to the Governmental Body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas Clearly Conflicts with this Chapter; and

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

**Section 551.074 Regarding Personnel Matters Related to the Annual General Manager Performance Review**

- 14. Consider Approval of Authorization to Acquire Real Property Interests by Purchase for the Cedar Creek Pipeline Rehab Project - Steve Christian, Real Property Director**

**Parcels 24 - 29  
(JAS Holdings L.P.)**

**Temporary easement interests across a 0.939-acre tract of land situated in the Allen Reeves Survey, Abstract No. 939 and the Ben F. Berry Survey, Abstract No. 157, City of Midlothian, Ellis County, Texas; across a 3.461-acre tract of land situated in the Allen Reeves Survey, Abstract No. 939 and the J. Morgan Survey, Abstract No.1224, City of Midlothian, Ellis County, Texas; across a 0.414-acre tract of land situated in the Allen Reeves Survey, Abstract No. 939, City of Midlothian, Ellis County, Texas; across a 0.622-acre tract of land situated in the Allen Reeves Survey, Abstract No. 939, City of Midlothian, Ellis County, Texas; across a 0.571-acre tract of land situated in the Allen Reeves Survey, Abstract No. 939 and the Ben F. Berry Survey, Abstract No. 157, City of Midlothian, Ellis County, Texas; and across a 3.144-acre tract of land situated in the Allen Reeves Survey, Abstract No. 939, City of Midlothian, Ellis County, Texas**

- 15. Future Agenda Items**
- 16. Schedule Next Board Meeting**
- 17. Adjourn**

MINUTES OF A MEETING OF THE BOARD OF DIRECTORS OF  
TARRANT REGIONAL WATER DISTRICT  
HELD ON THE 19<sup>th</sup> DAY OF AUGUST 2024 AT 9:00 A.M.

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

Present  
Leah King  
James Hill  
Mary Kelleher  
C.B. Team  
Paxton Motheral

Also present were Dan Buhman, Alan Thomas, Darrell Beason, Kate Beck, Lisa Cabrera, Linda Christie, Ellie Garcia, Zachary Huff, Randy Johnston, Courtney Kelly, Wendy Lockhart, Jennifer Mitchell, Sandy Newby, Rick Odom, and Stephen Tatum of the Tarrant Regional Water District (District or TRWD).

1.

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

2.

There were no requests from the public to address the Board of Directors during the Public Comment portion of the agenda.

3.

The Board of Directors discussed the proposed Fiscal Year 2025 General Fund Budget and Fiscal Year 2025 Special Project/Contingency Fund Budget.

The Board of Directors recessed for a break from 9:38 a.m. to 9:42 a.m.

4.

The Board next held an Executive Session commencing at 9:42 a.m. under Section 551.071 of the Texas Government Code 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 of the Texas Government Code, to Deliberate the Purchase, Exchange, Lease or Value of Real Property on Panther Island.

Upon completion of the executive session at 10:45 a.m., the President reopened the meeting.

5.

The Board received Texas Open Government and Ethics Training from Stephen Tatum, General Counsel and Courtney Kelly, Public Information Coordinator. This training included the Texas Open Meetings Act, the Texas Public Information Act, and key ethics laws and policies.

6.

There were no future agenda items approved.

7.

The next board meetings were scheduled for August 20, 2024, at 9:00 a.m.; September 12, 2024 at 11:00 a.m.; and September 17, 2024 at 9:00 a.m.

8.

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

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President

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Secretary

MINUTES OF A MEETING OF THE BOARD OF DIRECTORS OF  
TARRANT REGIONAL WATER DISTRICT  
HELD ON THE 20<sup>th</sup> DAY OF AUGUST 2024 AT 9:00 A.M.

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

Present  
Leah King  
James Hill  
C.B. Team  
Paxton Motheral

Absent  
Mary Kelleher

Also present were Dan Buhman, Alan Thomas, Darrel Andrews, Kate Beck, Rick Carroll, Steve Christian, Linda Christie, Dustan Compton, Ellie Garcia, Jason Gehrig, Zach Hatton, Zachary Huff, Rachel Ickert, Randy Johnston, Sandy Newby, Jennifer Owens, and Stephen Tatum of the Tarrant Regional Water District (District or TRWD).

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 Phillip Morphis who spoke regarding "Rockwood @ Churchill water flooding."

3.

Director Hill moved to approve the minutes from the meetings held on July 16, 2024, and July 25, 2024. Director Team seconded the motion, and the votes were 4 in favor, 0 against. It was accordingly ordered that these minutes be placed in the permanent files of the District.

4.

With the recommendation of management, Director Motheral moved to approve the consent agenda. Consent agenda items include:

1) A change in the calculation of retainage being held to five percent of the contract price with Archer Western Construction, LLC for Richland-Chambers Lake Pump Station Backup Sodium Hypochlorite Feed Facility and Hydraulic Actuator Installation Project. The total current contract is \$4,408,350 with retainage to be held in the amount of \$220,417.50. All remaining contract payments are to be paid in full, the Board having found that over 50% of the work has been completed, that satisfactory progress is being made and that the amount retained is in excess of the amount adequate for the protection of the District. However, any changes to the contract price by change order or alternate base bid work for the project will require adjustment to the retainage schedule. The General Manager of TRWD or his designee is authorized to execute all documents associated with the contract. Funding for this item is included in the Bond Fund.

2) Release of retainage in the amount of \$172,664.50 with Hydro Resources Mid-Continent, Inc. for ASR Well Demonstration Study - Well Drilling Project. Hydro Resources Mid-Continent, Inc. successfully completed construction of the project on June 24, 2024, with no outstanding issues. Funding for this item is included in the Bond Fund.

Director Team seconded the motion, and the votes were 4 in favor, 0 against.

5.

With the recommendation of management, Director Hill moved to approve a contract in an amount not-to-exceed \$4,168,753 with Kennedy Jenks Consultants, Inc. for engineering design services for the removal and replacement of approximately 4.42

miles of the Cedar Creek Pipeline. Funding for this item is included in the Bond Fund. Director Team seconded the motion, and the votes were 4 in favor, 0 against.

6.

With the recommendation of management, Director Team moved to approve a contract in an amount not-to-exceed \$5,346,528 with CP&Y, Inc. dba STV Infrastructure for engineering design services for the removal and replacement of approximately 8.6 miles of the Cedar Creek Pipeline. Funding for this item is included in the Bond Fund. Director Motheral seconded the motion, and the votes were 3 in favor, 0 against. President King was not present for the vote.

7.

With the recommendation of management, Director Team moved to approve a contract in an amount not-to-exceed \$424,533 with HDR Engineering, Inc. for corrosion control engineering design services for approximately 4.42 miles of the Cedar Creek Section 2 Phase 2 pipeline replacement project along with the adjacent Richland-Chambers pipeline, and 8.6 miles of the Cedar Creek Section 4 pipeline replacement project. Funding for this item is included in the Bond Fund. Director Motheral seconded the motion, and the votes were 3 in favor, 0 against. President King was not present for the vote.

8.

With the recommendation of management, Director Motheral moved to approve a contract in the amount of \$421,345 with Freese and Nichols, Inc. for the environmental permitting of approximately 8 miles of the Cedar Creek pipeline replacement project. This contract covers both Section 2, Phase 2 at a cost of \$212,653 and Section 1D/1E at a



cost of \$208,692. Funding for this item is included in the Bond Fund. Director Team seconded the motion, and the votes were 3 in favor, 0 against. President King was not present for the vote.

9.

With the recommendation of management, Director Motheral moved to approve a contract in the amount of \$138,000 with Terracon for the environmental permitting of approximately 8 miles of the Cedar Creek pipeline replacement project. Funding for this item is included in the Bond Fund. Director Team seconded the motion, and the votes were 3 in favor, 0 against. President King was not present for the vote.

10.

With the recommendation of management, Director Team moved to approve reallocation of \$46 million of the local Central City Flood Control Project budget, from non-essential to essential flood control project purposes as recommended by the Trinity River Vision Authority Board of Directors on April 25, 2024. Director Motheral seconded the motion, and the votes were 4 in favor, 0 against.

11.

With the recommendation of management, Director Hill moved to approve a contract amendment in an amount not-to-exceed \$110,123 with Freese and Nichols, Inc. to add Fort Worth Central City and Panther Island canals into the Regional Flood Plan as Flood Mitigation Projects. Funding for this item is included in the Fiscal Year 2024 Special Projects/Contingency Budget. Director Motheral seconded the motion, and the votes were 4 in favor, 0 against.

12.

With the recommendation of management, Director Team moved to approve a facilities extension agreement in an amount not-to-exceed \$21,500,000 with Oncor Electric Delivery Company LLC for design and construction of a 138-kilovolt electrical transmission line and metering substation for high voltage electric service to the Lake Palestine Pump Station. The General Manager of TRWD or his designee is authorized execute all documents associated with the agreement. Funding for this item is included in the Dallas Bond Fund. Director Motheral seconded the motion, and the votes were 4 in favor, 0 against.

13.

Director Team motioned to approve placing an agenda item on the September 17, 2024 Board of Directors meeting agenda and establishing the date for a public meeting on the Tax Year 2024 Tax Rate on September 12, 2024. President King seconded the motion. Upon clarification of the vote, Director Team indicated his intention to rescind the motion to approve agenda item 13, and no action was taken on the motion.

Director Hill then made a motion to continue the agenda item until after Executive Session and Director Team seconded the motion, and the votes were 4 in favor, 0 against.

14.

#### Staff Updates

- Water Resources and Planning Update presented by Rachel Ickert, Chief Water Resources Officer
- Water Conservation Strategic Plan Update presented by Linda Christie, Government Affairs Director

The Board of Directors recessed for a break from 9:44 a.m. to 9:49 a.m.

15.

The Board next held an Executive Session commencing at 9:49 a.m. under Section 551.071 of the Texas Government Code 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 of the Texas Government Code to Deliberate the Purchase, Exchange, Lease or Value of Real Property Concerning the Richland-Chambers Wetlands Project and the Panther Island/Central City Flood Control Project.

Upon completion of the executive session at 10:04 a.m., the President reopened the meeting.

16.

With the recommendation of management, Director Team moved to authorize the General Manager of TRWD or his designee to take all steps which may be reasonably necessary to convey to Legg Family Partners, LP, a Texas limited partnership, fee simple title to the surface estate only of a 6.839-acre tract of land, such tract of land to be conveyed by TRWD being more specifically described in the metes and bounds descriptions and survey plats attached hereto. The conveyance by TRWD is subject to the following: 1) TRWD's reservation of all minerals; 2) Reservation by TRWD of a flowage easement; and 3) Payment by Legg Family Partners, LP of \$60,000 to TRWD and the payment or reimbursement by Legg Family Partners, LP of all closing, appraisal and survey costs related to such conveyance. Director Motheral seconded the motion, and the votes were 4 in favor, 0 against.

# EXHIBIT "A"

## FIELD NOTES TRACT 1

6.839 ACRES OF LAND

R. YBARBO SURVEY

THE TCWC TRACT

ABSTRACT NO. 606

### KAUFMAN COUNTY, TEXAS

BEING ALL OF THAT CERTAIN LOT, TRACT OR PARCEL OF LAND LOCATED IN THE R. YBARBO SURVEY, ABSTRACT NO. 606, KAUFMAN COUNTY, TEXAS AND BEING ALL OF A CALLED 6.85 ACRE TRACT AS DESCRIBED IN DEED TO TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE RECORDED IN VOLUME 481, PAGE 123 OF THE DEED RECORDS OF KAUFMAN COUNTY, TEXAS (DRKCT). SAID LOT, TRACT OR PARCEL OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING at a ½" iron rod found in the west line of a called 9.286 acre tract of land described in Deed to Armand Wiltz recorded in Volume 4580, Page 402 of the DRKCT and being S 01°37'23" E, 145.34 feet from a ½" iron rod found at the northwest corner of said Wiltz tract and the southwest corner of a called 52.24 acre tract of land as described in Deed to Eastern CCL LLC recorded in Volume 3242, Page 618 of the DRKCT and being in the east line of the of a called 59.638 acre tract of land described in Deed to Legg Family Partners LP tract of land described in Volume 5221, Page 505 of the DRKCT;

THENCE, S 01°37'23" E (Control Line), 281.01 feet along the west line of the said Wiltz tract to a ½" iron rod found;

THENCE, along the common line of the Legg Family Partners LP tract as follows: N 22°23'48" W, 126.72 feet to a ½" iron rod set with a plastic cap stamped #4207; N 22°25'55" W, 504.73 feet to a ½" iron rod found in the east line of a called 25.16 acre tract of land described in Deed to Howison Family Investment Trust recorded in Volume 3475, Page 22 of the DRKCT;

THENCE, along the common line of the Howison tract and this tract as follows: N 15°49'06" E, 51.75 feet to a 3/8" iron rod found; N 74°24'43" W, 41.27 feet to a ½" iron rod found at the beginning of a curve to the left, with a radius of 2732.63 feet, a chord that bears N 32°05'17" W, 812.44 feet;

THENCE, along the common line of the Legg Family Partners LP tract as follows: with said curve to the left an arc length of 815.46 feet to a ½" iron rod set with a plastic cap stamped #4207; N 40°24'11" W, 1564.11 feet to a ½" iron rod found in the Deeded 325' elevation line of Cedar Creek Lake, the west line Legg Family Partners LP tract, at the most western corner of this tract;

THENCE, along the said 325' elevation line as follows: N 29°00'00" W, 29.03 feet; N 08°00'00" W, 40.00 feet; S 77°00'00" E, 50.00 feet; S 60°00'00" E, 75.00 feet; N 38°00'00" W, 120.00 feet; N 76°00'00" E, 14.32 feet to a ½" iron rod set with a plastic cap stamped #4207 in the west line Legg Family Partners LP tract, at the northwest corner of this tract;

THENCE, along the common line of the Legg Family Partners LP tract as follows: S 40°24'11" E, 1628.87 feet to a ½" iron rod set with a plastic cap stamped #4207 at the beginning of a curve to the right with a radius of 2832.63 feet, a chord that bears S 31°23'55" E, 909.10 feet an arc length of 913.04 feet to a ½" iron rod set with a plastic cap stamped #4207; S 22°23'35" E, 368.82 feet to the POINT OF BEGINNING and CONTAINING 6.839 ACRES OF LAND MORE OR LESS.

BASIS OF BEARING: TEXAS COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83

### SURVEYOR'S CERTIFICATE

Date: March 8, 2024

To: LW Investments LLC

I, Gary L. Hardin, Registered Professional Land Surveyor No. 4207, do hereby certify that the field notes hereon represents the results of a survey made on the ground under my direction and supervision, the lines and dimensions of said property being as indicated. This survey is based on deeds, easements and/or recorded plats and other records when furnished by the client or the client's representative, as well as significant and visible monuments found on the subject property and adjacent properties, field measurements and evidence of boundaries found on the ground. However, this certification is not a representation of warranty of title or guarantee of ownership. This survey was performed EXCLUSIVELY for the above mentioned parties. USE OF THIS SURVEY FOR ANY OTHER PURPOSE OR BY OTHER PARTIES SHALL BE AT THEIR RISK AND THE UNDERSIGNED IS NOT RESPONSIBLE FOR ANY LOSS RESULTING THEREFROM.

  
GARY L. HARDIN, RPLS NO. 4207  
FIRM REGISTRATION NO. 10114700  
W.O.# 2404001 (SEE SURVEY)



# LAND TITLE SURVEY

U.S. HIGHWAY 175, MABANK, TEXAS 75147

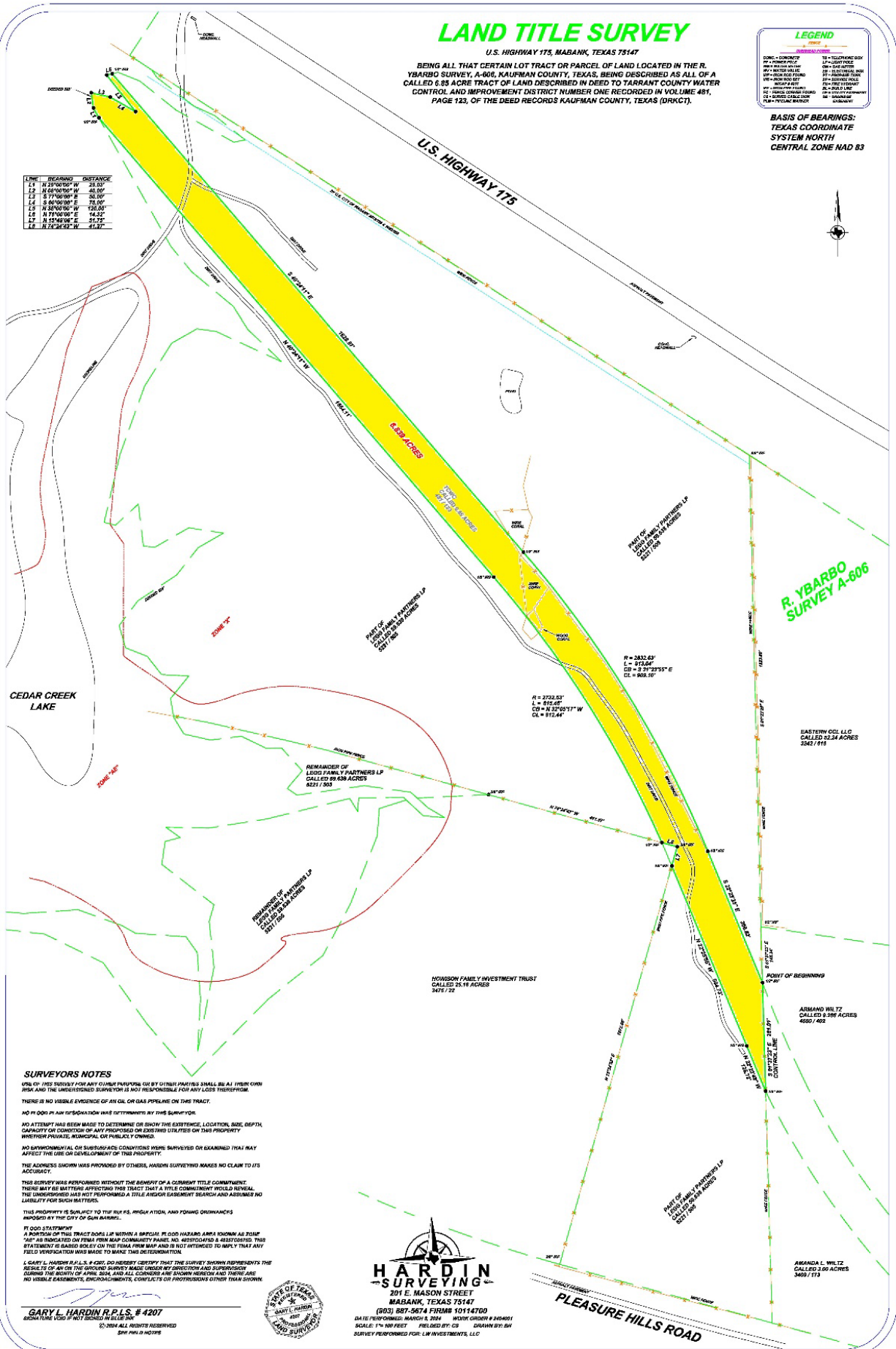
BEING ALL THAT CERTAIN LOT TRACT OR PARCEL OF LAND LOCATED IN THE R. YBARBO SURVEY, A-606, KAUFMAN COUNTY, TEXAS, BEING DESCRIBED AS ALL OF A CALLED 6.93 ACRE TRACT OF LAND DESCRIBED IN DEED TO TARRANT COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NUMBER ONE RECORDED IN VOLUME 481, PAGE 123, OF THE DEED RECORDS KAUFMAN COUNTY, TEXAS (DRKCT).

### LEGEND

LINE 1-6	LINE 7-12
LINE 13-14	LINE 15-16
LINE 17-18	LINE 19-20
LINE 21-22	LINE 23-24
LINE 25-26	LINE 27-28
LINE 29-30	LINE 31-32
LINE 33-34	LINE 35-36
LINE 37-38	LINE 39-40
LINE 41-42	LINE 43-44
LINE 45-46	LINE 47-48
LINE 49-50	LINE 51-52
LINE 53-54	LINE 55-56
LINE 57-58	LINE 59-60
LINE 61-62	LINE 63-64
LINE 65-66	LINE 67-68
LINE 69-70	LINE 71-72
LINE 73-74	LINE 75-76
LINE 77-78	LINE 79-80
LINE 81-82	LINE 83-84
LINE 85-86	LINE 87-88
LINE 89-90	LINE 91-92
LINE 93-94	LINE 95-96
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LINE 113-114	LINE 115-116
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LINE 261-262	LINE 263-264
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LINE 273-274	LINE 275-276
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LINE 301-302	LINE 303-304
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LINE 393-394	LINE 395-396
LINE 397-398	LINE 399-400
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LINE 405-406	LINE 407-408
LINE 409-410	LINE 411-412
LINE 413-414	LINE 415-416
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LINE 421-422	LINE 423-424
LINE 425-426	LINE 427-428
LINE 429-430	LINE 431-432
LINE 433-434	LINE 435-436
LINE 437-438	LINE 439-440
LINE 441-442	LINE 443-444
LINE 445-446	LINE 447-448
LINE 449-450	LINE 451-452
LINE 453-454	LINE 455-456
LINE 457-458	LINE 459-460
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LINE 465-466	LINE 467-468
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LINE 473-474	LINE 475-476
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LINE 481-482	LINE 483-484
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LINE 545-546	LINE 547-548
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LINE 561-562	LINE 563-564
LINE 565-566	LINE 567-568
LINE 569-570	LINE 571-572
LINE 573-574	LINE 575-576
LINE 577-578	LINE 579-580
LINE 581-582	LINE 583-584
LINE 585-586	LINE 587-588
LINE 589-590	LINE 591-592
LINE 593-594	LINE 595-596
LINE 597-598	LINE 599-600
LINE 601-602	LINE 603-604
LINE 605-606	LINE 607-608
LINE 609-610	LINE 611-612
LINE 613-614	LINE 615-616
LINE 617-618	LINE 619-620
LINE 621-622	LINE 623-624
LINE 625-626	LINE 627-628
LINE 629-630	LINE 631-632
LINE 633-634	LINE 635-636
LINE 637-638	LINE 639-640
LINE 641-642	LINE 643-644
LINE 645-646	LINE 647-648
LINE 649-650	LINE 651-652
LINE 653-654	LINE 655-656
LINE 657-658	LINE 659-660
LINE 661-662	LINE 663-664
LINE 665-666	LINE 667-668
LINE 669-670	LINE 671-672
LINE 673-674	LINE 675-676
LINE 677-678	LINE 679-680
LINE 681-682	LINE 683-684
LINE 685-686	LINE 687-688
LINE 689-690	LINE 691-692
LINE 693-694	LINE 695-696
LINE 697-698	LINE 699-700
LINE 701-702	LINE 703-704
LINE 705-706	LINE 707-708
LINE 709-710	LINE 711-712
LINE 713-714	LINE 715-716
LINE 717-718	LINE 719-720
LINE 721-722	LINE 723-724
LINE 725-726	LINE 727-728
LINE 729-730	LINE 731-732
LINE 733-734	LINE 735-736
LINE 737-738	LINE 739-740
LINE 741-742	LINE 743-744
LINE 745-746	LINE 747-748
LINE 749-750	LINE 751-752
LINE 753-754	LINE 755-756
LINE 757-758	LINE 759-760
LINE 761-762	LINE 763-764
LINE 765-766	LINE 767-768
LINE 769-770	LINE 771-772
LINE 773-774	LINE 775-776
LINE 777-778	LINE 779-780
LINE 781-782	LINE 783-784
LINE 785-786	LINE 787-788
LINE 789-790	LINE 791-792
LINE 793-794	LINE 795-796
LINE 797-798	LINE 799-800
LINE 801-802	LINE 803-804
LINE 805-806	LINE 807-808
LINE 809-810	LINE 811-812
LINE 813-814	LINE 815-816
LINE 817-818	LINE 819-820
LINE 821-822	LINE 823-824
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LINE 837-838	LINE 839-840
LINE 841-842	LINE 843-844
LINE 845-846	LINE 847-848
LINE 849-850	LINE 851-852
LINE 853-854	LINE 855-856
LINE 857-858	LINE 859-860
LINE 861-862	LINE 863-864
LINE 865-866	LINE 867-868
LINE 869-870	LINE 871-872
LINE 873-874	LINE 875-876
LINE 877-878	LINE 879-880
LINE 881-882	LINE 883-884
LINE 885-886	LINE 887-888
LINE 889-890	LINE 891-892
LINE 893-894	LINE 895-896
LINE 897-898	LINE 899-900
LINE 901-902	LINE 903-904
LINE 905-906	LINE 907-908
LINE 909-910	LINE 911-912
LINE 913-914	LINE 915-916
LINE 917-918	LINE 919-920
LINE 921-922	LINE 923-924
LINE 925-926	LINE 927-928
LINE 929-930	LINE 931-932
LINE 933-934	LINE 935-936
LINE 937-938	LINE 939-940
LINE 941-942	LINE 943-944
LINE 945-946	LINE 947-948
LINE 949-950	LINE 951-952
LINE 953-954	LINE 955-956
LINE 957-958	LINE 959-960
LINE 961-962	LINE 963-964
LINE 965-966	LINE 967-968
LINE 969-970	LINE 971-972
LINE 973-974	LINE 975-976
LINE 977-978	LINE 979-980
LINE 981-982	LINE 983-984
LINE 985-986	LINE 987-988
LINE 989-990	LINE 991-992
LINE 993-994	LINE 995-996
LINE 997-998	LINE 999-1000

BASIS OF BEARINGS:  
TEXAS COORDINATE  
SYSTEM NORTH  
CENTRAL ZONE NAD 83

LINE	BEARING	DISTANCE
1-1	N 23°00'00" W	35.23'
1-2	N 68°00'00" W	40.00'
1-3	S 7°00'00" E	30.00'
1-4	S 60°00'00" E	75.00'
1-5	N 32°00'00" E	125.00'
1-6	N 78°00'00" E	14.23'
1-7	N 12°00'00" E	25.23'
1-8	N 24°34'53" W	47.47'



### SURVEYORS NOTES

USE OF THIS SURVEY FOR ANY OTHER PURPOSE OR BY OTHER PARTIES SHALL BE AT THEIR OWN RISK AND THE UNDERSIGNED SURVEYOR IS NOT RESPONSIBLE FOR ANY LOSS THEREFROM.

THERE IS NO VISIBLE EVIDENCE OF AN OIL OR GAS PIPELINE ON THIS TRACT.

NO RECORD IN ANY INFORMATION WAS OBTAINED BY THIS SURVEYOR.

NO ATTEMPT HAS BEEN MADE TO DETERMINE OR SHOW THE EXISTENCE, LOCATION, SIZE, DEPTH, CAPACITY OR CONDITION OF ANY PROPOSED OR EXISTING UTILITIES ON THIS PROPERTY, WHETHER PRIVATE, MUNICIPAL OR PUBLICLY OWNED.

NO ENVIRONMENTAL OR SUBSTANTIAL CONDITIONS WERE SURVEYED OR EXAMINED THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.

THE ADDRESS SHOWN WAS PROVIDED BY OTHERS, HARDIN SURVEYING MAKES NO CLAIM TO ITS ACCURACY.

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT. THERE MAY BE MATTERS AFFECTING THIS TRACT THAT A TITLE COMMITMENT WOULD REVEAL. THE UNDERSIGNED HAS NOT PERFORMED A TITLE AND/OR EASEMENT SEARCH AND ASSUMES NO LIABILITY FOR SUCH MATTERS.

THIS PROPERTY IS SUBJECT TO THE RULES, REGULATIONS AND ZONING ORDINANCES IMPOSED BY THE CITY OF GUN BARREL.

FIELD STRATAGEM: A PORTION OF THIS TRACT JOINS LIP WITHIN A BRIGAL PI GOOD HAZARD AREA KNOWN AS ZONE "A" AS INDICATED ON FEMA FIRM MAP COMMUNITY PANEL NO. 48310C0101 & 48310C0102. THIS STATEMENT IS BASED SOLELY ON THE FEMA FIRM MAP AND IS NOT INTENDED TO APPLY TO ANY FIELD VERIFICATION WAS MADE TO MAKE THIS DETERMINATION.

I, GARY L. HARDIN P.L.S. & C.S., DO HEREBY CERTIFY THAT THE SURVEY SHOWN REPRESENTS THE RESULTS OF AN ON THE GROUND SURVEY MADE UNDER MY DIRECTION AND SUPERVISION DURING THE MONTH OF APRIL 2024 AND ALL CONSIDERABLE ARE SHOWN HEREON AND THERE ARE NO VISIBLE EASEMENTS, ENCROACHMENTS, CONFLICTS OR PROFESSIONS OTHER THAN SHOWN.

GARY L. HARDIN P.L.S. # 4207  
GUN BARREL, TEXAS  
© 2024 ALL RIGHTS RESERVED  
SEE PLAN FOR DETAILS

**HARDIN SURVEYING**  
201 E. MASON STREET  
MABANK, TEXAS 75147  
(800) 807-2674 FIRM# 10114700  
DATE PERFORMED: MARCH 1, 2024 WORK ORDER # 24001  
SCALE: 1" = 50 FEET FIELD BY: CS DRAWN BY: SH  
SURVEY PERFORMED FOR: LW INVESTMENTS, LLC



R. YBARBO SURVEY A-606

CEDAR CREEK LAKE

U.S. HIGHWAY 175

PLEASURE HILLS ROAD

With the recommendation of management, Director Team moved to approve authorization to acquire interests in the following described land, which are necessary for the public use and purpose of construction and operation of the Richland-Chambers Wetlands Project.

Management requests that the General Manager of TRWD or his designee be authorized to take all steps which may be reasonably necessary to complete the acquisition of the real property interests described below, including, but not limited to, the authority to institute and prosecute condemnation proceedings and to pay all reasonable and necessary costs incurred in connection with such acquisition.

**Permanent easement interest over and across a 1.078-acre of land located in the JOHN HENRY SURVEY, Abstract No. 398, Navarro County, Texas, and being a portion of the tract of land conveyed to Charles R. Paige, by the deed recorded in Instrument No. 2021-000955, of the Official Public Records of Navarro County, Texas, and being further described in accompanying resolution and in the survey plat attached hereto, for the negotiated purchase price of \$20,750.**

**EXHIBIT "A"**  
**LEGAL DESCRIPTION**  
**PERMANENT ACCESS EASEMENT**

BEING 1.078 acres of land located in the JOHN HENRY SURVEY, Abstract No. 398, Navarro County, Texas, and being a portion of the tract of land conveyed to Charles R. Paige, by the deed recorded in Instrument No. 2021-000955, of the Official Public Records of Navarro County, Texas. Said 1.078 acres of land being more particularly described by metes and bounds as follows:

BEGINNING at a "60D" nail set at the North corner of aforesaid Paige Tract, from which a 2" iron pipe found is located S 30° 56' 59" E 15.00 feet, and said POINT OF BEGINNING having Texas State Plane Grid Coordinates N: 6,701,064.53681 and E: 2,719,603.93516;

THENCE S 00° 09' 32" W 232.76 feet, to a point lying in the East line of an existing 30' Easement for Ingress and Egress, according to the deed recorded in Instrument No. 2024-002277, of the Official Public Records of Navarro County, Texas;

THENCE along the East line of said 30' Ingress and Egress Easement as follows:

1. S 42° 09' 19" E 114.44 feet, to a point;
2. S 40° 26' 02" E 139.85 feet, to a point;
3. S 31° 13' 33" E 689.24 feet, to a point;
4. S 21° 09' 36" E 78.99 feet, to a point;
5. S 12° 51' 13" E 84.33 feet, to a point lying in the North boundary line of a tract of land conveyed to Texas Parks and Wildlife Department, by the deed recorded in Volume 1116, Page 286, of the Deed Records of Navarro County, Texas;

THENCE S 58° 18' 25" W 31.70 feet, along the North boundary line of said Texas Parks and Wildlife Department Tract, to a point from which a Tarrant County Water Control & Improvement District Number One monument found bears S 58° 18' 25" W 334.03 feet;

THENCE running along the West line of the aforesaid 30' Easement for Ingress and Egress, as follows:

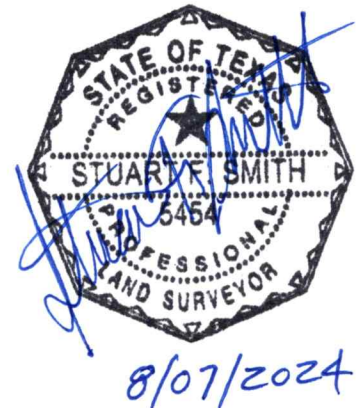
1. N 12° 51' 13" W 92.39 feet, to a point;
2. N 21° 09' 36" W 74.17 feet, to a point;
3. N 31° 13' 33" W 684.18 feet, to a point;
4. N 40° 26' 02" W 136.99 feet, to a point;
5. N 42° 09' 19" W 323.07 feet, to a point in the Northwest boundary line of aforesaid Paige Tract and the approximate centerline of SE County Road No. 4250;

THENCE N 59° 02' 43" E 30.58 feet, along the Northwest boundary line of said Paige Tract, to a point;

THENCE S 42° 09' 19" E 143.73 feet, along the East line of aforesaid 30' Easement for Ingress and Egress, to a point;

THENCE N 01° 21' 51" E 166.83 feet, to a point lying in the Northwest boundary line of aforesaid Paige Tract and the approximate centerline of aforesaid SE County Road No. 4250;

THENCE N 59° 02' 43" E 42.62 feet, along the Northwest boundary line of said Paige Tract and the approximate centerline of said SE County Road No. 4250, to the POINT OF BEGINNING containing 1.078 acres (46,972 square feet) of land.



# EXHIBIT "B"

P. MORTON SURVEY  
ABSTRACT NO. 543

TARRANT COUNTY WATER CONTROL  
AND IMPROVEMENT DISTRICT NUMBER ONE  
VOL. 981, PG. 708  
D.R.N.C.T.

APPROXIMATE LOCATION OF SURVEY LINE  
ALONG CENTER OF COUNTY ROAD

**POINT OF BEGINNING**  
(60 D NAIL SET)  
N=6701064.53681  
E=2719603.93516

TOMMY DWAYNE HUTTO AND  
SHENA RENE HUTTO  
INST.#2022-004082  
O.P.R.N.C.T.

SE COUNTY  
ROAD 4250

JOHN HENRY SURVEY  
ABSTRACT No. 398

TRACT 3  
30' EASEMENT FOR INGRESS/EGRESS  
CEDAR CREEK HOLDINGS  
INST.#2024-002277  
O.P.R.N.C.T.

TRACT 2  
RIGHT OF ACCESS EASEMENT  
CEDAR CREEK HOLDINGS  
INST.#2024-002277  
O.P.R.N.C.T.

CEDAR CREEK HOLDINGS  
INST.#2024-002277  
O.P.R.N.C.T.

**PERMANENT ACCESS  
EASEMENT**  
**1.078 ACRES**  
**(46,972 SQ. FT.)**

Course	Bearing	Distance
L1	N 30°57'17" W	15.00'
L2	S 00°09'32" W	232.76'
L3	S 42°09'19" E	114.44'
L4	S 40°26'02" E	139.85'
L5	S 31°13'33" E	689.24'
L6	S 21°09'36" E	78.99'
L7	S 12°51'13" E	84.33'
L8	S 58°18'25" W	31.70'
L9	N 12°51'13" W	92.39'
L10	N 21°09'36" W	74.17'
L11	N 31°13'33" W	684.18'
L12	N 40°26'02" W	136.99'
L13	N 42°09'19" W	323.07'
L14	N 59°02'43" E	30.58'
L15	S 42°09'19" E	143.73'
L16	N 01°21'51" E	166.83'
L17	N 59°02'43" E	42.62'

CHARLES R. PAIGE  
INST.#2021-000955  
O.P.R.N.C.T.



AUGUST 7, 2024

TCWC  
MONUMENT  
FOUND

TEXAS PARKS AND  
WILDLIFE DEPARTMENT  
VOL. 1116, PG. 286  
D.R.N.C.T.



**BRITTAIN & CRAWFORD**

LAND SURVEYING &  
TOPOGRAPHIC MAPPING

(817) 926-0211 - METRO (817) 429-5112  
FAX No. (817) 926-9347  
P.O. BOX 11374 • 3908 SOUTH FREEWAY  
FORT WORTH, TEXAS 76110  
EMAIL: admin@brittain-crawford.com

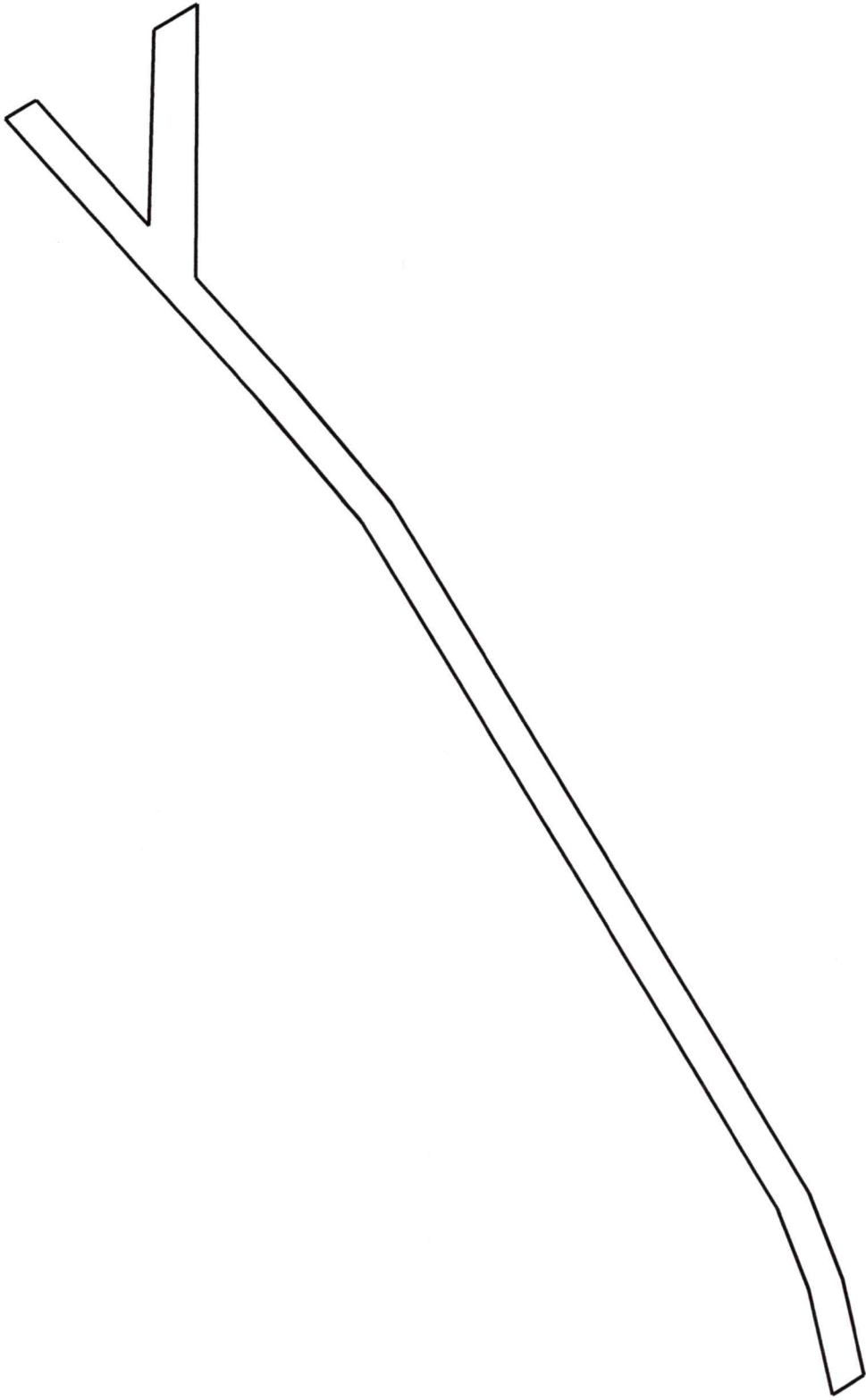
EXHIBIT MAP  
OF  
PERMANENT ACCESS  
EASEMENT

LOCATED IN  
THE JOHN HENRY SURVEY ABSTRACT  
No. 398, NAVARRO COUNTY, TEXAS



SCALE 1"=150'





TRWD Richland Chambers - Navarro - Paige - PAE - 1.078 Ac 8/7/2024

Scale: 1 inch= 146 feet

File: TRWD Richland Chambers - Navarro - Paige - PAE - 1.078 Ac.ndp

Tract 1: 1.0783 Acres (46972 Sq. Feet), Closure: n28.0220e 0.01 ft. (1/338267), Perimeter=3066 ft.

01 s00.0932w 232.76  
 02 s42.0919e 114.44  
 03 s40.2602e 139.85  
 04 s31.1333e 689.24  
 05 s21.0936e 78.99  
 06 s12.5113e 84.33  
 07 s58.1825w 31.70  
 08 n12.5113w 92.39  
 09 n21.0936w 74.17  
 10 n31.1333w 684.18

11 n40.2602w 136.99  
 12 n42.0919w 323.07  
 13 n59.0243e 30.58  
 14 s42.0919e 143.73  
 15 n01.2151e 166.83  
 16 n59.0243e 42.62

Funding for this item is included in the Bond Fund. Director Motheral seconded the motion, and the votes were 4 in favor, 0 against.

18.

The Board of Directors concluded the Texas Open Government and Ethics training on August 19, 2024, so no further training was needed.

13.

Director Team made a motion to rescind his previous motion for agenda item 13. Director Hill seconded the motion and the votes were 4 in favor, 0 against.

Director Team then made a motion to place a proposal to adopt a Tax Year 2024 Tax Rate of \$.0267/\$100 on the agenda of the September 17, 2024, Board of Directors Meeting and establish the date for a public hearing to be held September 12, 2024, at 11:00am on the proposed Tax Year 2024 Tax Rate of \$.0267/\$100. Director Motheral seconded the motion and the votes were 4 in favor and 0 against.

19.

There were no future agenda items approved.

20.

The next board meetings were scheduled for September 12, 2024, at 11:00 a.m.; and September 17, 2024, at 9:00 a.m.

21.

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

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President

---

Secretary

## TARRANT REGIONAL WATER DISTRICT

### AGENDA ITEM 4

**DATE:** September 17, 2024

**SUBJECT:** Consider Approval of Fiscal Year 2025 General Fund Budget

**FUNDING:** Fiscal Year 2025 General Fund

**RECOMMENDATION:**

Management recommends approval of the proposed Fiscal Year 2025 General Fund budgeted expenditures of \$29,119,555.

**DISCUSSION:**

The proposed General Fund Budget consists of Flood Control expenditures of \$29,119,555. These expenditures are the result of a combination of long-term planning and constant evaluation of the current system needs. System improvements and capital equipment support the enhancement of the flood control infrastructure, while maintenance costs preserve the system that is already in place. Support services include the personnel, administrative support, professional services, and information technology needed to execute the District's mission.

The Board of Directors met on August 19, 2024 for a budget workshop. No changes have been made since that time.

The General Fund budget being recommended to the Board is shown on the next page. Please see attached General Fund budget book for further details.

**Submitted By:**

Sandy Newby  
Chief Financial Officer

## General Fund - Flood Control FY25 Budget

Expenditures	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %
<b>Maintenance</b>					
Facilities & Grounds Maintenance	\$ 977,342	\$ 1,313,440	\$ 1,470,250	\$ 156,810	11.94%
Equipment & Fleet	607,219	549,618	640,504	90,886	16.54%
Maintenance Support	690,804	801,545	1,004,195	202,650	25.28%
Stream Gauging Stations	254,384	287,000	167,900	(119,100)	(41.50)%
Total Maintenance	2,529,749	2,951,603	3,282,849	331,246	11.22%
<b>System Improvements &amp; Capital Equipment</b>	\$ 1,773,689	\$ 4,507,500	\$ 4,384,500	\$ (123,000)	(2.73)%
<b>Environmental Stewardship &amp; Public Outreach</b>					
Public Outreach & Events	\$ 85,790	\$ 772,907	\$ 835,198	\$ 62,291	8.06%
Stormwater Program	41,729	75,000	19,500	(55,500)	(74.00)%
Environmental Stewardship	43,265	56,400	47,770	(8,630)	(15.30)%
Clear Fork Trash Wheel	—	350,000	—	(350,000)	(100.00)%
Total Environmental Stewardship and Public Outreach	170,783	1,254,307	902,468	(351,839)	(28.05)%
Property Taxes Paid to TIF's	\$ 561,058	\$ 580,314	\$ 568,249	\$ (12,065)	(2.08)%
<b>Support Services</b>					
Employee Related	\$ 9,982,099	\$ 13,986,296	\$ 14,626,798	\$ 640,502	4.58%
Administrative Support	1,539,520	2,020,143	2,510,091	489,948	24.25%
Professional Services	1,692,542	2,071,395	1,903,734	(167,661)	(8.09)%
Information Technology	685,399	1,054,329	940,867	(113,462)	(10.76)%
Total Support Services	13,899,560	19,132,163	19,981,489	849,326	4.44%
<b>Total Expenditures</b>	<b>\$ 18,934,840</b>	<b>\$ 28,425,887</b>	<b>\$ 29,119,555</b>	<b>\$ 693,668</b>	<b>2.44 %</b>

# General Fund Flood Control



## TRWD General Fund - Flood Control FY25 Budget Summary

**TRWD General Fund Purpose**

Enriching communities and improving the quality of life through water supply, flood control, and recreation.

**Flood Control Overview**

The District has approved a strategic plan to invest in our people, meet the rapid growth in our communities, further enhance our fiscal responsibility, and improve community stewardship. Additionally, the plan includes pursuing Federal and State funding to reduce costs, updating internal processes to increase efficiency, and demonstrating our values and commitment to the community.

The increase in the General Fund budget for fiscal year 2025 is mostly due to expenditures for the personnel that maintain the Fort Worth floodway and support the District overall plus the cost for the General Fund to lease a portion of the new operations compound from the Revenue Fund.

The General Fund budget is supported by tax revenues. The tax rate used to estimate the expected revenues is \$0.0267 per \$100 valuation.

The District enriches communities and improves the quality of life through flood control and recreation within the District boundaries, and this budget ensures that protection for the foreseeable future.

**Proposed FY25 General Fund Budget**

<b>Expenditures</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Change %</b>
Operating Expenditures	\$ 17,161,151	\$ 23,918,387	\$ 24,735,055	3.41 %
System Improvements & Capital Equipment	1,773,689	4,507,500	4,384,500	(2.73)%
<b>Total Expenditures</b>	<b>18,934,840</b>	<b>28,425,887</b>	<b>29,119,555</b>	<b>2.44 %</b>
<b>Revenues</b>				
Taxes	25,984,634	28,242,000	29,100,000	3.04 %
Contributions	—	310,000	—	(100.00)%
<b>Total Revenues</b>	<b>28,577,510</b>	<b>28,552,000</b>	<b>29,100,000</b>	<b>1.92 %</b>
<b>Budgeted Net Increase to Equity</b>				
	<b>\$ 9,642,670</b>	<b>\$ 126,113</b>	<b>\$ (19,555)</b>	<b>(115.51)%</b>

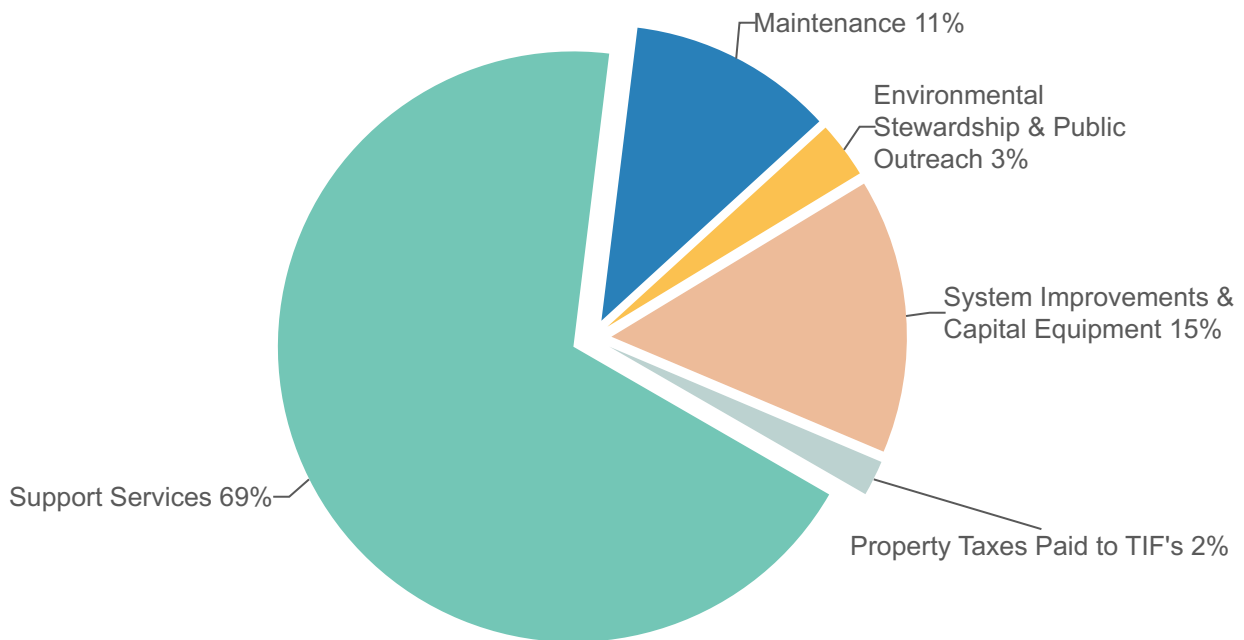
# General Fund: Expenditures

## Summary Expenditure Budget

The District’s flood control mission requires a combination of long-term planning and constant evaluation of the current system needs. System improvements and capital equipment support the enhancement of the flood control infrastructure, while maintenance costs preserve the system that is already in place. Support Service costs include the personnel, administrative support, professional services, and information technology needed to execute the District's mission. Additional details are provided on the following pages.

Budget Categories	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %
Maintenance	\$ 2,529,749	\$ 2,951,603	\$ 3,282,849	\$ 331,246	11.22 %
System Improvements & Capital Equipment	1,773,689	4,507,500	4,384,500	(123,000)	(2.73)%
Environmental Stewardship & Public Outreach	170,783	1,254,307	902,468	(351,839)	(28.05)%
Property Taxes Paid to TIF's	561,058	580,314	568,249	(12,065)	(2.08)%
Support Services	13,899,560	19,132,163	19,981,489	849,326	4.44 %
<b>Total Expenditures</b>	<b>\$ 18,934,840</b>	<b>\$ 28,425,887</b>	<b>\$ 29,119,555</b>	<b>\$ 693,668</b>	<b>2.44 %</b>

FY25 General Fund Expenditures



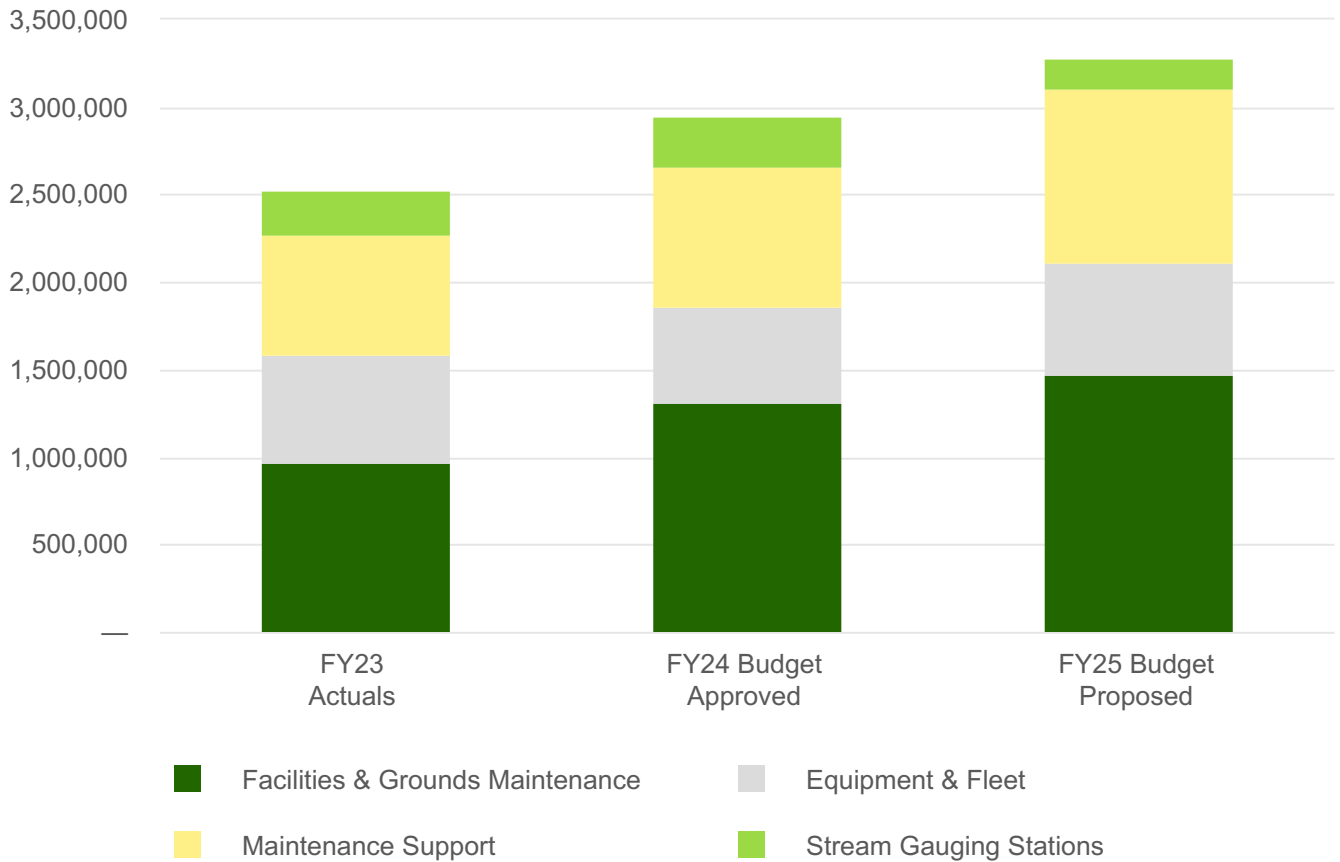


### Maintenance Expenditures

Facilities & grounds maintenance increased in fiscal year 2025 due to an increase in the cost of mowing and maintaining the floodway, both due to higher pricing as well as an increase in the public use of the floodway. Fleet increased due to the increase in costs needed to maintain an aging fleet. The increase in maintenance support is primarily due to an increase in contract labor costs needed to support the additional cleanup and maintenance requirements along the floodway.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Facilities & Grounds Maintenance	\$ 977,342	\$ 1,313,440	\$ 1,470,250	\$ 156,810
Equipment & Fleet	607,219	549,618	640,504	90,886
Maintenance Support	690,804	801,545	1,004,195	202,650
Stream Gauging Stations	254,384	287,000	167,900	(119,100)
<b>Total</b>	<b>\$ 2,529,749</b>	<b>\$ 2,951,603</b>	<b>\$ 3,282,849</b>	<b>\$ 331,246</b>

Maintenance Expenditures



## System Improvements and Capital Equipment Expenditures

System improvement and capital equipment expenditures for the General Fund serve to support the District's flood control and recreation missions by improving and repairing the existing infrastructure.

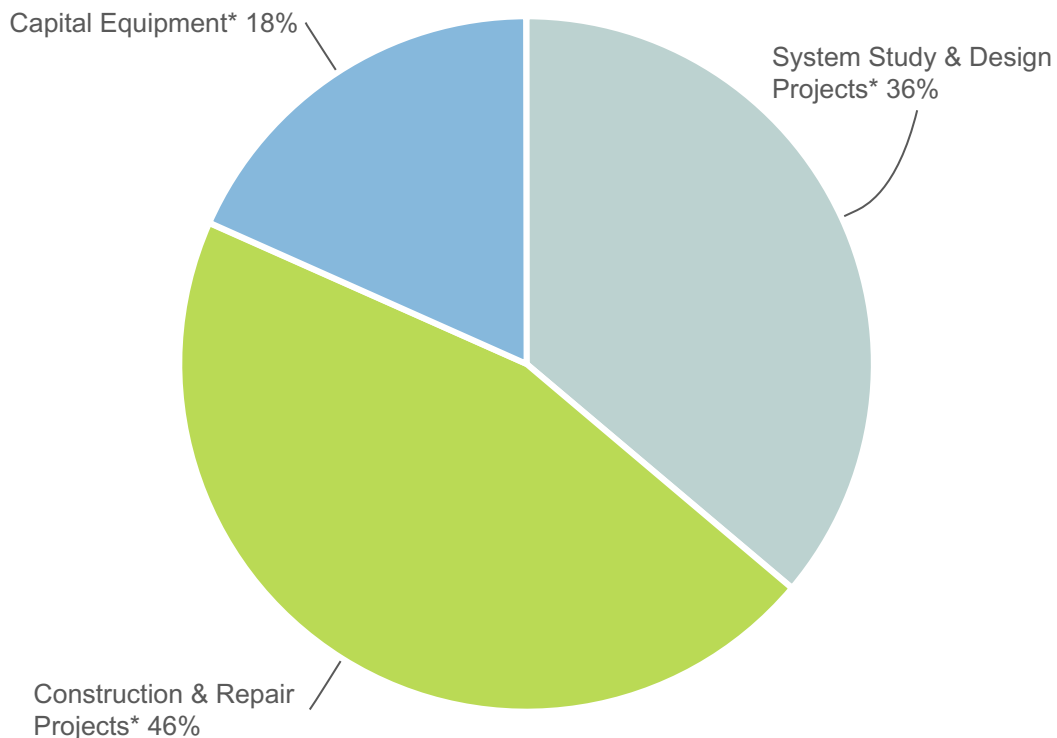
The largest System Study & Design Project relates to upstream flood mitigation. The District is also implementing a new Enterprise Resource Planning/Human Resources Information System (ERP/HRIS), which will replace the current financial and human resource applications as well as other systems for more efficient processing and up-to-date data analysis. Construction & Repair projects include erosion repairs along the floodway and the maintenance and construction of new trails and trailheads in alignment with the District's recreation master plan.

Capital equipment purchases are asset-management driven, allowing the District to own the heavy equipment needed to maintain and improve the floodway.

Additional details are shown on the following page.

	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
System Study & Design Projects*	\$ 304,137	\$ 818,000	\$ 1,585,150	\$ 767,150
Construction & Repair Projects*	469,120	2,324,500	1,995,350	(329,150)
Capital Equipment*	1,000,432	1,365,000	804,000	(561,000)
<b>Total \$</b>	<b>1,773,689</b>	<b>\$ 4,507,500</b>	<b>\$ 4,384,500</b>	<b>\$ (123,000)</b>

System Improvements & Capital Equipment



\*Additional details available on the following page.

**System Improvements and Capital Equipment Expenditures**

	<u>FY25 Budget Proposed</u>
<b><u>System Study &amp; Design Projects</u></b>	
Upstream Flood Mitigation	\$ 900,000
ERP/HRIS Software Implementation	237,500
Recreation Master Plan - Design Phase	100,000
Miscellaneous System Study & Design Projects*	347,650
	<u>\$ 1,585,150</u>
<b><u>Construction &amp; Repair Projects</u></b>	
Erosion Repairs	800,000
Maintenance Road/Trail Replacement	500,000
Recreation Master Plan Implementation	200,000
Building Improvement at The Woodshed	100,000
Miscellaneous Construction & Repair Projects*	395,350
	<u>\$ 1,995,350</u>
<b><u>Capital Equipment**</u></b>	
Heavy Duty Mini Excavator	145,000
Pickup Trucks	279,000
Heavy Duty Compact Track Loader	120,000
Lifecycle Video Archiver Servers	75,000
Miscellaneous Capital Equipment*	185,000
	<u>\$ 804,000</u>
<b>Total System Improvements &amp; Capital Equipment</b>	<b>\$ 4,384,500</b>

\*All individual items listed under "Miscellaneous" are less than \$100 thousand.

\*\* The District classifies any machinery or equipment purchases of \$10 thousand or more as capital equipment.

## Environmental Stewardship and Public Outreach Expenditures

TRWD acts as a steward of the natural environment and the communities it serves. As owners and operators of the Fort Worth floodway, protecting the quality of the water in the Trinity River is a priority of the District. In fiscal year 2024 the District realigned its public outreach events with its core mission, and moved these events from the Special Projects/Contingency Fund to the General Fund. The trash wheel is not rebudgeted because it was a one-time project.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Public Outreach & Events*	\$ 85,790	\$ 772,907	\$ 835,198	\$ 62,291
Stormwater Program	41,729	75,000	19,500	(55,500)
Environmental Stewardship	43,265	56,400	47,770	(8,630)
Clear Fork Trash Wheel	—	350,000	—	(350,000)
<b>Total</b>	<b>\$ 170,783</b>	<b>\$ 1,254,307</b>	<b>\$ 902,468</b>	<b>\$ (351,839)</b>

The District’s public outreach events bring the community to the floodway, allowing them to enjoy the beauty of the natural environment within the local neighborhoods. Fort Worth’s Fourth is a time-honored tradition, which is budgeted to include a drone show in fiscal year 2025. The semi-annual Trash Bash events bring communities together to care for these natural environments while getting to know the District.

*Public Outreach & Events Detail	FY25 Budget Proposed	FY25 Proposed Revenues in the Special Projects/ Contingency Fund
Fort Worth's Fourth	\$ 481,700	\$ 225,000
Trash Bash	117,350	
Flyfest & Trout Stocking	77,000	4,000
Community Sponsorships	42,800	
Mayfest	29,000	
Other Public Outreach & Events	87,348	
<b>Total</b>	<b>\$ 835,198</b>	<b>\$ 229,000</b>



**Property Taxes Paid to TIF's**

TRWD has agreed to participate in a number of tax increment financing (TIF) agreements to reinvest a portion of property taxes collected in programs that support economic development within District communities. The decrease in the overall taxes to contribute to TIF's in fiscal year 2025 is mostly due to the ending of TIF #3 Downtown.

<b>Property Taxes Paid to TIF's</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
TIF #3 Downtown	\$ 82,908	\$ 102,164	\$ —	\$ (102,164)
TIF #8 Lancaster	59,444	59,444	70,148	10,704
TIF #9 Trinity River Vision	173,780	173,780	189,581	15,801
TIF #10 Lone Star	13,067	13,067	14,531	1,464
TIF #12 East Berry	34,285	34,285	38,400	4,115
TIF #13 Woodway	99,286	99,286	121,326	22,040
TIF #14 Trinity Lakes	63,974	63,974	78,005	14,031
TIF #15 Stockyards	34,314	34,314	56,257	21,943
<b>Total</b>	<b>\$ 561,058</b>	<b>\$ 580,314</b>	<b>\$ 568,249</b>	<b>\$ (12,065)</b>

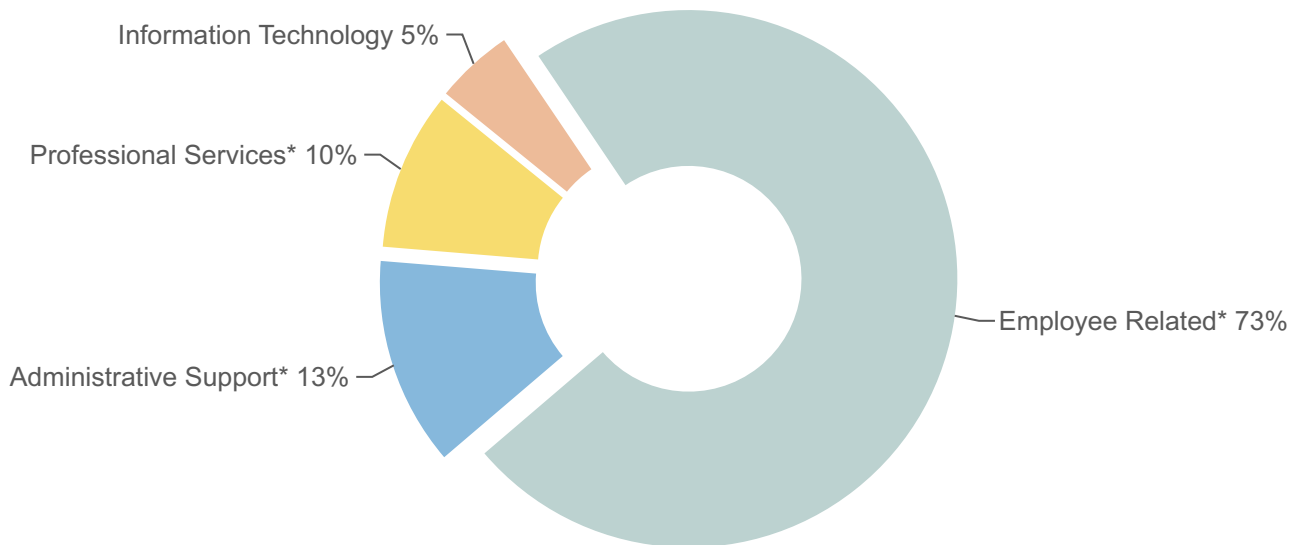
## Support Services Summary

Support services makes up 70% of the fiscal year 2025 General Fund budget and serves to support TRWD’s efforts in providing flood control to the communities served by the District. The largest portion of this cost is TRWD’s investment in its people, resulting in strong employee retention, low turnover rates, high employee engagement, and a stable culture.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Employee Related*	\$ 9,982,099	\$ 13,986,296	\$ 14,626,798	\$ 640,502
Administrative Support*	1,539,520	2,020,143	2,510,091	489,948
Professional Services*	1,692,542	2,071,395	1,903,734	(167,661)
Information Technology	685,399	1,054,329	940,867	(113,462)
<b>Total</b>	<b>\$ 13,899,560</b>	<b>\$ 19,132,163</b>	<b>\$ 19,981,489</b>	<b>\$ 849,326</b>

\*Additional details are given on the following pages.

FY25 General Fund Support Services

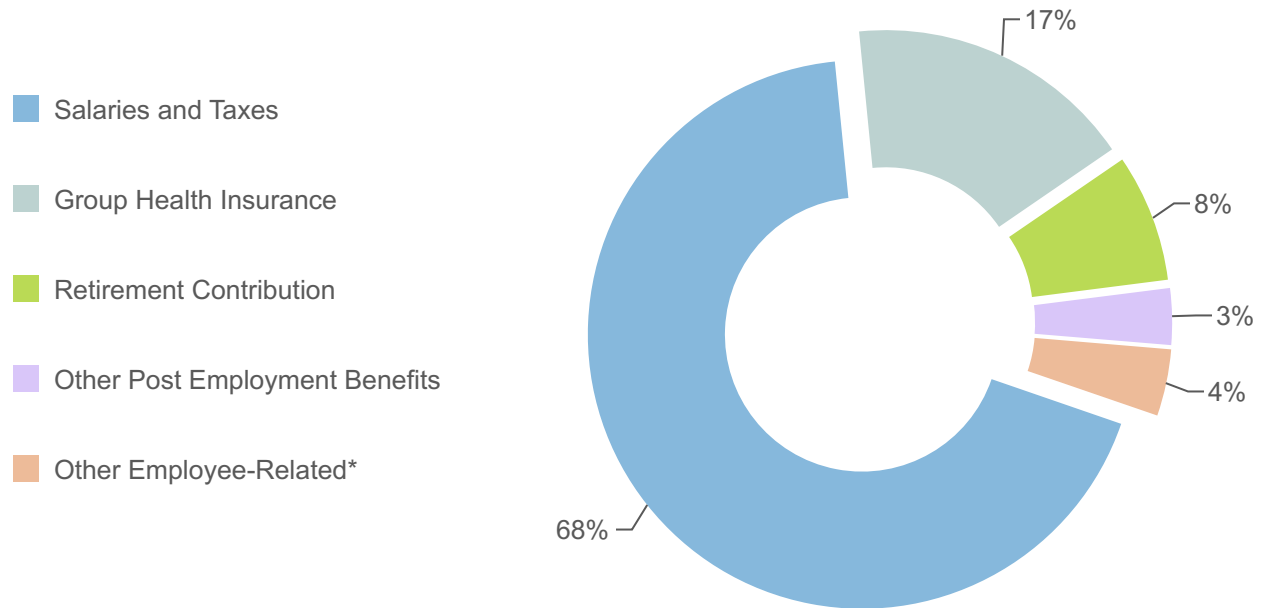


## Support Services Employee-Related Expenditures

TRWD’s strategic plan includes intentional investment in its people. The District plans to invest in a diverse workforce through training, a focus on safety, and the planning and support needed to live TRWD values. The overall increase in employee-related expenditures is mainly due to budgeting 6% for raises and promotions. The increase since fiscal year 2023 actuals is due to the filling of many vacancies and adding additional positions to keep up with community growth. The District is self-insured for the employee group health plan, and since claims have been lower than budget for the past couple of years, no increase is budgeted for fiscal year 2025. A 10% increase in the Other Post Employment Benefits (OPEB) budget will be seen each year until 75% of the OPEB liability is funded. As of fiscal year-end 2023, OPEB contribution was funded at 60%.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %
Salaries and Taxes	\$ 7,030,988	\$ 9,410,922	\$ 9,940,237	\$ 529,315	5.62 %
Group Health Insurance	1,392,229	2,511,311	2,511,311	—	— %
Retirement Contribution	781,489	1,051,805	1,099,951	48,146	4.58 %
Other Post Employment Benefits	385,846	448,010	492,811	44,801	10.00 %
Other Employee-Related Expenditures	391,548	564,247	582,488	18,241	3.23 %
<b>Total</b>	<b>\$ 9,982,099</b>	<b>\$ 13,986,295</b>	<b>\$ 14,626,798</b>	<b>\$ 640,503</b>	<b>4.58 %</b>

FY25 Employee-Related Expenditures

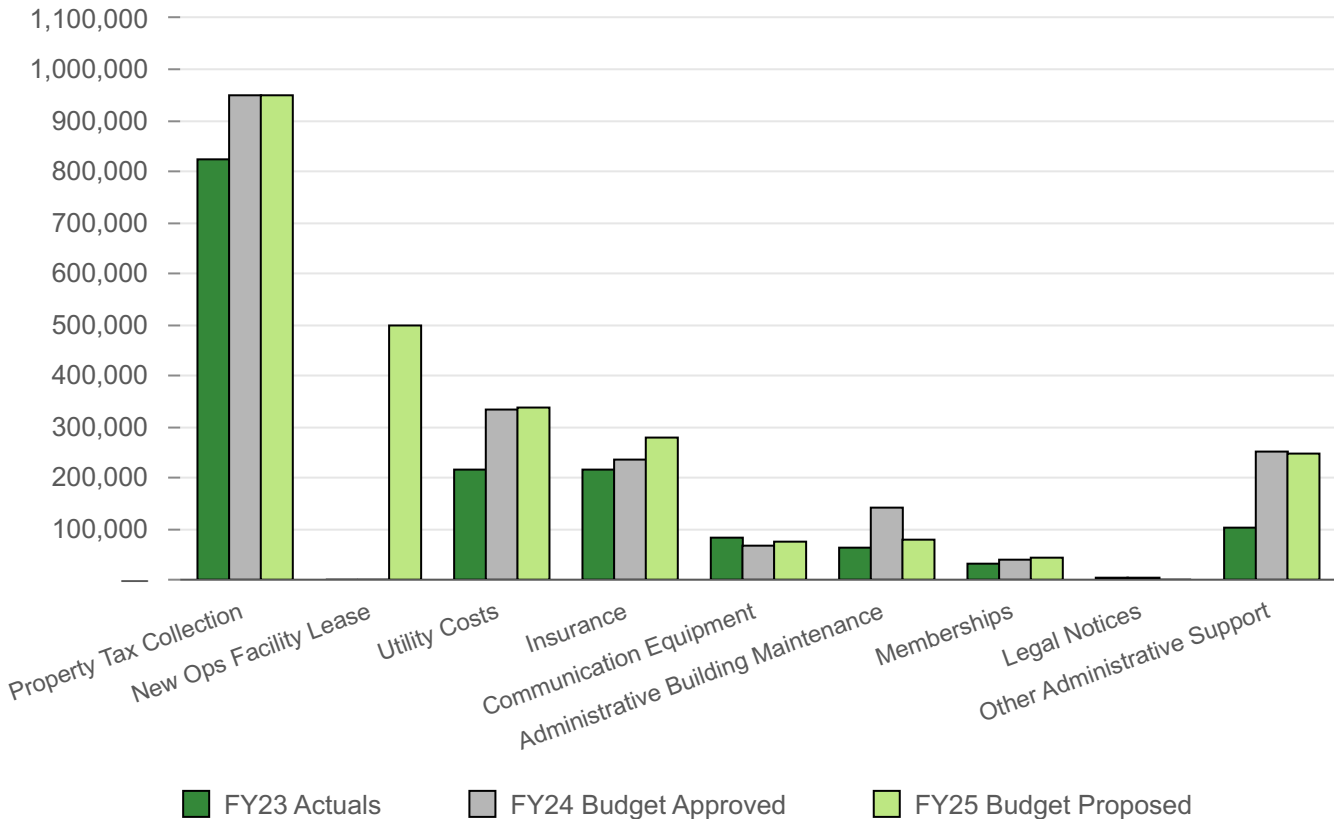


## Support Services Administrative Support Expenditures

Administrative support services consist of a variety of overhead expenditures that support the District’s flood control system as a whole. The new operations facilities lease is for the General Fund lease of a portion of the new operations compound. Building maintenance costs decreased as compared to the fiscal year 2024 budget because the HVAC replacements in last year’s budget are expected to be complete before the end of the year. Insurance costs increased due to the District’s need to protect additional capital assets.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Property Tax Collection	\$ 825,105	\$ 950,000	\$ 950,000	\$ —
New Operations Facility Lease	—	—	500,000	500,000
Utility Costs	216,085	332,390	336,380	3,990
Insurance	217,766	234,400	279,219	44,819
Communication Equipment	81,633	65,730	74,080	8,350
Administrative Building Maintenance	61,923	142,411	77,621	(64,790)
Memberships	30,922	40,848	43,342	2,494
Legal Notices	3,869	4,100	1,820	(2,280)
Other Administrative Support	102,216	250,265	247,629	(2,636)
<b>Total \$</b>	<b>1,539,520</b>	<b>\$ 2,020,144</b>	<b>\$ 2,510,091</b>	<b>\$ 489,947</b>

Administrative Support Expenditures



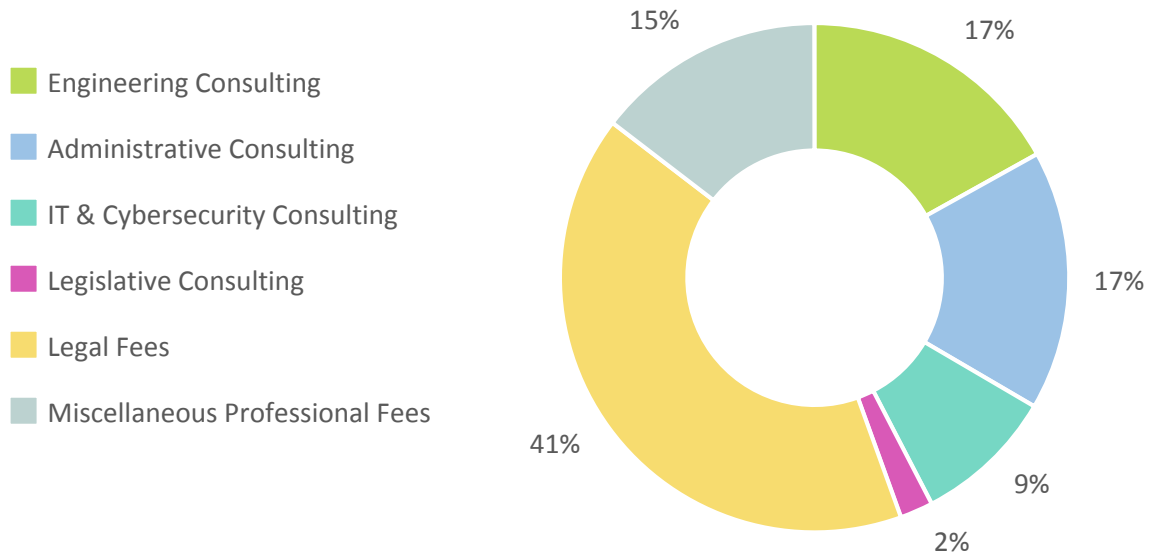


## Support Services Professional Services

Professional services are provided by external vendors with specialized technical expertise to support the District's flood control efforts. Administrative consulting provides professional support for financial, human resource, and other administrative efforts.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Engineering Consulting	\$ 73,554	\$ 331,780	\$ 322,280	\$ (9,500)
Administrative Consulting	223,439	363,084	314,138	(48,946)
IT & Cybersecurity Consulting	98,606	214,320	170,810	(43,510)
Legislative Consulting	40,292	39,900	39,900	—
Subtotal Consulting Fees	\$ 435,891	\$ 949,084	\$ 847,128	\$ (101,956)
Legal Fees	827,742	782,600	778,800	(3,800)
Miscellaneous Professional Fees	428,910	339,711	277,806	(61,905)
<b>Total Professional Services</b>	<b>\$ 1,692,542</b>	<b>\$ 2,071,395</b>	<b>\$ 1,903,734</b>	<b>\$ (167,661)</b>

FY25 Professional Services



# General Fund: Revenues

**Sources of Revenue**  
**Summary**

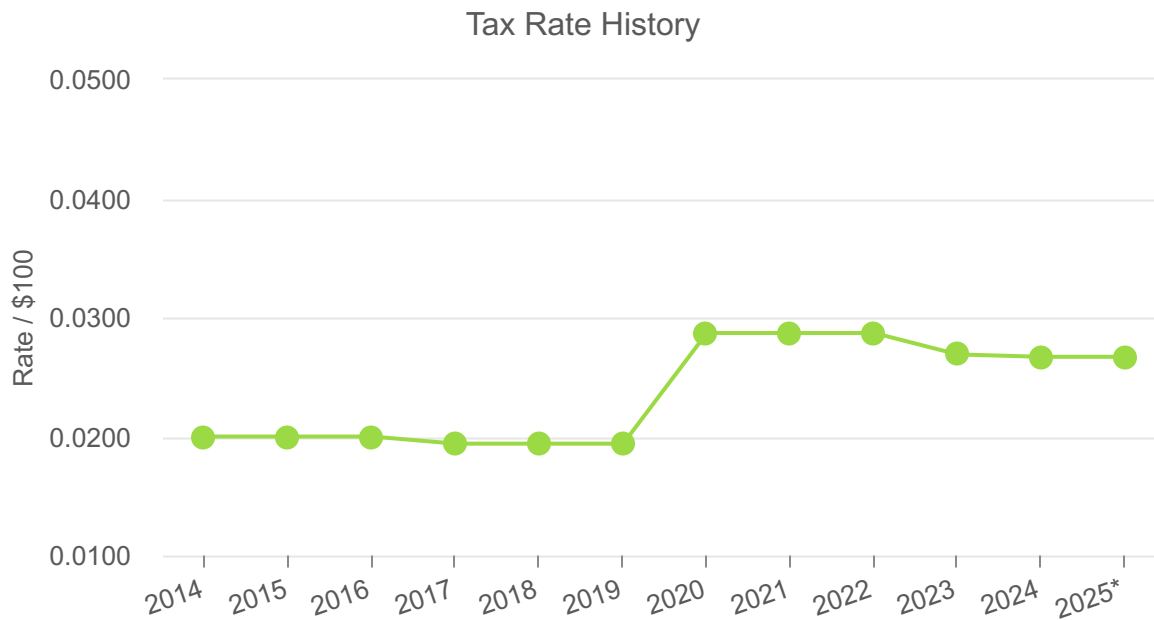
The flood control mission of the District is funded by the collection of property taxes. Previously, in fiscal year 2024, contribution revenues were budgeted for specific reimbursable projects that are not in the fiscal year 2025 proposed budget.

	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
Taxes	\$ 25,984,634	\$ 28,242,000	\$ 29,100,000	\$ 858,000
Contribution Revenues	—	310,000	—	(310,000)
<b>Total Revenues</b>	<b>\$ 25,984,634</b>	<b>\$ 28,552,000</b>	<b>\$ 29,100,000</b>	<b>\$ 548,000</b>

## Sources of Revenue 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 function. The proposed budget for fiscal year 2025 estimates the tax revenues to be collected, using the 2024 fiscal year’s ad valorem tax rate of \$0.0267 per \$100 valuation, to be approximately \$29.1 million. This is based on a net taxable value of approximately \$109 billion and represents a projected tax burden of approximately \$77.41 for an average home valued at \$289,918. The official tax rate will be discussed and approved by the Board subsequent to approval of the fiscal year 2025 budgeted expenditures.

Tax Revenues	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Property Taxes Collected	\$ 25,984,634	\$ 28,242,000	\$ 29,100,000	\$ 858,000



\*Budgeted tax rate

## General Fund - Flood Control FY25 Budget

Expenditures	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %	Notes*
<b>Maintenance</b>						
Facilities & Grounds Maintenance	\$ 977,342	\$ 1,313,440	\$ 1,470,250	\$ 156,810	11.94%	1
Equipment & Fleet	607,219	549,618	640,504	90,886	16.54%	1
Maintenance Support	690,804	801,545	1,004,195	202,650	25.28%	1
Stream Gauging Stations	254,384	287,000	167,900	(119,100)	(41.50)%	
Total Maintenance	2,529,749	2,951,603	3,282,849	331,246	11.22%	
<b>System Improvements &amp; Capital Equipment</b>	\$ 1,773,689	\$ 4,507,500	\$ 4,384,500	\$ (123,000)	(2.73)%	
<b>Environmental Stewardship &amp; Public Outreach</b>						
Public Outreach & Events	\$ 85,790	\$ 772,907	\$ 835,198	\$ 62,291	8.06%	
Stormwater Program	41,729	75,000	19,500	(55,500)	(74.00)%	2
Environmental Stewardship	43,265	56,400	47,770	(8,630)	(15.30)%	
Clear Fork Trash Wheel	—	350,000	—	(350,000)	(100.00)%	2
Total Environmental Stewardship and Public Outreach	170,783	1,254,307	902,468	(351,839)	(28.05)%	
Property Taxes Paid to TIF's	\$ 561,058	\$ 580,314	\$ 568,249	\$ (12,065)	(2.08)%	
<b>Support Services</b>						
Employee Related	\$ 9,982,099	\$ 13,986,296	\$ 14,626,798	\$ 640,502	4.58%	
Administrative Support	1,539,520	2,020,143	2,510,091	489,948	24.25%	3
Professional Services	1,692,542	2,071,395	1,903,734	(167,661)	(8.09)%	
Information Technology	685,399	1,054,329	940,867	(113,462)	(10.76)%	
Total Support Services	13,899,560	19,132,163	19,981,489	849,326	4.44%	
<b>Total Expenditures</b>	<b>\$ 18,934,840</b>	<b>\$ 28,425,887</b>	<b>\$ 29,119,555</b>	<b>\$ 693,668</b>	<b>2.44 %</b>	
<b>Revenues</b>						
Taxes	\$ 25,984,634	\$ 28,242,000	\$ 29,100,000	\$ 858,000	3.04%	
Contributions	—	310,000	—	(310,000)	(100.00)%	
<b>Total Revenues</b>	<b>\$ 25,984,634</b>	<b>\$ 28,552,000</b>	<b>\$ 29,100,000</b>	<b>\$ 548,000</b>	<b>1.92 %</b>	
<b>Net Increase to Equity</b>	<b>\$ 7,049,794</b>	<b>\$ 126,113</b>	<b>\$ (19,555)</b>	<b>\$ (145,668)</b>	<b>(115.51)%</b>	

## **Variance Explanations**

- 1. Maintenance** - Facilities & grounds maintenance increased in fiscal year 2025 due to an increase in the cost of mowing and maintaining the floodway, both due to higher pricing as well as an increase in the public use of the floodway. Fleet increased due to the increase in costs needed to maintain an aging fleet. The increase in maintenance support is primarily due to an increase in contract labor costs needed to support the additional cleanup and maintenance requirements along the floodway.
- 2. Environmental Stewardship and Public Outreach** – The primary cause for the decrease in the environmental stewardship budget is the removal of the trash wheel and a decrease in the stormwater program. The trash wheel is not re-budgeted because it was a one-time project.
- 3. Administrative Support** - The main increase is due to the General Fund's lease of a portion of the new operations compound.

**TARRANT REGIONAL WATER DISTRICT**

**AGENDA ITEM 5**

**DATE:** September 17, 2024

**SUBJECT:** **Vote to Adopt a Tax Rate of \$.0267/\$100 for Tax Year 2024**

**FUNDING:** N/A

**RECOMMENDATION:**

Management recommends formal adoption of an ad valorem tax rate of \$.0267/\$100 valuation, for tax year 2024.

**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 2025 General Fund Budget.

The public hearing was held September 12, 2024, at 11:00 AM on the proposed tax year 2024 tax rate of \$.0267/\$100.

**Submitted By:**

Sandra Newby  
Chief Finance Director

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

On the 17th 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 2024 an ad valorem tax rate of \$.0267 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:

\_\_\_\_\_  
Mary Kelleher, Secretary



## TARRANT REGIONAL WATER DISTRICT

### AGENDA ITEM 6

**DATE:** September 17, 2024

**SUBJECT:** Consider Approval of Fiscal Year 2025 Special Projects/Contingency Fund Budget

**FUNDING:** Fiscal Year 2025 Special Projects/Contingency Fund

#### **RECOMMENDATION:**

Management recommends approval of the proposed Fiscal Year 2025 Special Projects/Contingency Fund budgeted expenditures of \$54,446,348.

#### **DISCUSSION:**

The proposed Special Projects/Contingency Fund budget consists of special projects expenditures of \$45,650,000 and expenditures for the Central City Flood Control project of \$8,796,348. These expenditures are offset by expected revenues of \$18,903,969 resulting in an expected decrease to equity of \$35,542,379.

The Board of Directors met on August 19, 2024, for a budget workshop. Since that time no changes have been made.

The Special Projects/Contingency Fund budget being recommended to the Board is shown on the next page. Please see attached Special Projects/Contingency Fund budget book for further details.

#### **Submitted By:**

Sandy Newby  
Chief Financial Officer

**Special Projects/Contingency Fund - FY25 Budget**

<b>Expenditures</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>
Canals	\$ 13,911	\$ 3,000,000	\$ 45,000,000	\$ 42,000,000	1400.00 %
Panther Island Consulting	—	—	350,000	350,000	100.00 %
La Grave Stadium Demolition	—	195,000	200,000	5,000	2.56 %
Land Strategy	148,461	100,000	100,000	—	— %
<b>Total Expenditures</b>	<b>\$ 162,372</b>	<b>\$ 3,295,000</b>	<b>\$ 45,650,000</b>	<b>\$ 42,355,000</b>	<b>1285.43 %</b>

<b>Revenues</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>
Oil and Gas	\$ 5,821,887	\$ 8,000,000	\$ 5,000,000	\$ (3,000,000)	(37.50)%
Interest Income	2,573,045	1,600,000	2,750,000	1,150,000	71.88 %
Recreation Revenues	873,735	796,000	1,049,968	253,968	31.91 %
Leases, Permits, & Other Income	1,713,257	1,405,847	1,307,653	(98,194)	(6.98)%
<b>Total Revenues</b>	<b>\$ 10,981,925</b>	<b>\$ 11,801,847</b>	<b>\$ 10,107,621</b>	<b>\$ (1,694,226)</b>	<b>(14.36)%</b>

<b>Debt Service / Central City Project</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>
Debt Service / Project Costs	\$ 8,149,492	\$ 7,577,446	\$ 8,446,348	\$ 868,902	11.47 %
NCTCOG Bridge Payment	350,000	350,000	350,000	—	— %
TIF Revenues	(8,110,938)	(7,927,446)	(8,796,348)	(868,902)	10.96 %
<b>Net Project Expenses</b>	<b>\$ (388,554)</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>100.00 %</b>

<b>Net Increase to Equity</b>	<b>\$ 7,762,739</b>	<b>\$ 8,506,847</b>	<b>\$ (35,542,379)</b>	<b>\$ (44,049,226)</b>	<b>(517.81)%</b>
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# Special Projects/ Contingency Fund



Airfield Falls Trails

## Special Projects/Contingency Fund FY25 Budget Summary

The Special Projects/Contingency Fund includes revenues from non-operating income to support special projects approved by the Board. Additionally, TIF revenues for the Central City Flood Control Project and related debt service are budgeted here. In fiscal year 2024 the District realigned its recreation events with its core mission, and moved these events from the Special Projects/Contingency Fund to the General Fund. Details of the amounts below can be found on the following pages.

Expenditures	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Canals	\$ 13,911	\$ 3,000,000	\$ 45,000,000	\$ 42,000,000
Panther Island Consulting	—	—	350,000	350,000
La Grave Stadium Demolition	—	195,000	200,000	5,000
Land Strategy	148,461	100,000	100,000	—
<b>Total Expenditures</b>	<b>\$ 162,372</b>	<b>\$ 3,295,000</b>	<b>\$ 45,650,000</b>	<b>\$ 42,355,000</b>

Revenues	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Oil and Gas	\$ 5,821,887	\$ 8,000,000	\$ 5,000,000	\$ (3,000,000)
Interest Income	2,573,045	1,600,000	2,750,000	1,150,000
Recreation Revenues	873,735	796,000	1,049,968	253,968
Leases, Permits, & Other Income	1,713,257	1,405,847	1,307,653	(98,194)
<b>Total Revenues</b>	<b>\$ 10,981,925</b>	<b>\$ 11,801,847</b>	<b>\$ 10,107,621</b>	<b>\$ (1,694,226)</b>

Debt Service / Central City Project	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Debt Service / Project Costs	\$ 8,149,492	\$ 7,577,446	\$ 8,446,348	\$ 868,902
NCTCOG Bridge Payment	350,000	350,000	350,000	—
TIF Revenues	(8,110,938)	(7,927,446)	(8,796,348)	(868,902)
<b>Net Change in Debt Services Equity</b>	<b>\$ (388,554)</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>

<b>Budgeted Net Increase to Equity</b>	<b>\$ 7,762,739</b>	<b>\$ 8,506,847</b>	<b>\$ (35,542,379)</b>	<b>\$ (44,049,226)</b>
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# Special Projects/Contingency Fund: Expenditures

### **Expenditures Summary**

The Special Projects/Contingency Fund provides a funding resource to support projects approved by the Board that support the flood control missions of the District without using tax funding. Prior to fiscal year 2024, La Grave Stadium expenditures were paid out of the General Fund. As part of its flood control mission, TRWD will need to build canals just north of downtown (Panther Island) that will function as flood control and stormwater transmission (see map on page 25). Panther Island consulting fees are for costs related to Panther Island development.

	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
Canals	\$ 13,911	\$ 3,000,000	\$ 45,000,000	\$ 42,000,000
Panther Island Consulting	—	—	350,000	350,000
La Grave Stadium Demolition	—	195,000	200,000	5,000
Land Strategy	148,461	100,000	100,000	—
<b>Total Expenditures</b>	<b>\$ 2,830,632</b>	<b>\$ 3,295,000</b>	<b>\$ 45,650,000</b>	<b>\$ 42,355,000</b>

# Canal Exhibit



# Special Projects/Contingency Fund: Revenues

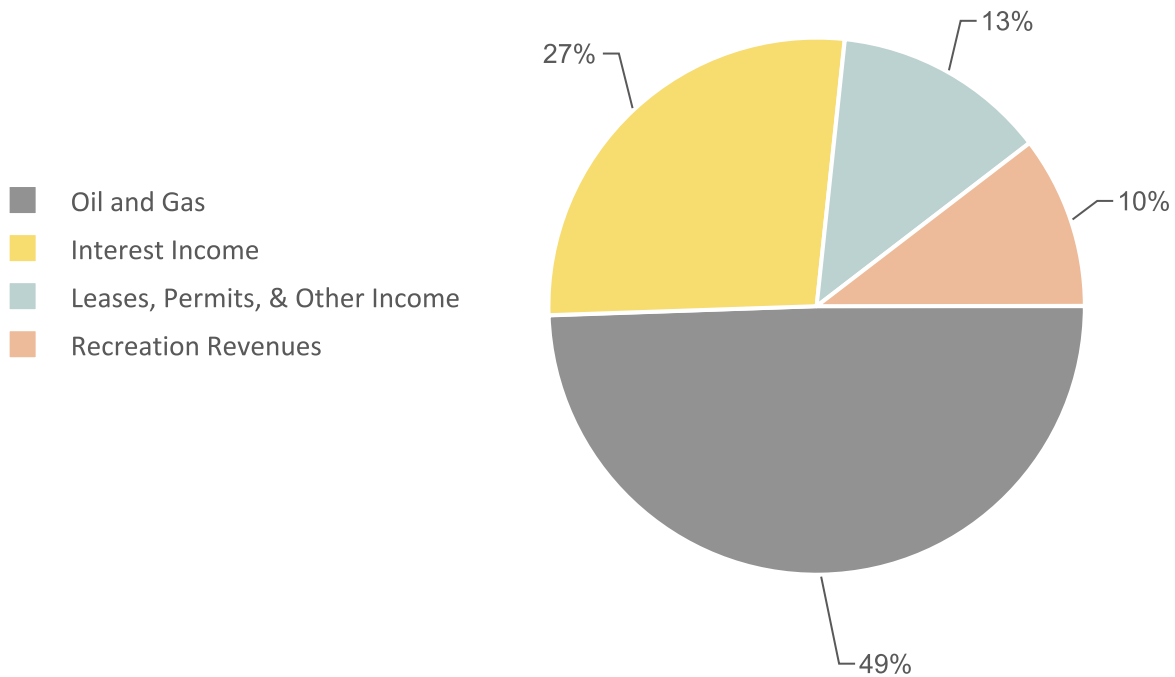


## Sources of Revenue Summary

The District earns revenues from oil and gas, interest income, leases, permits, fees, recreation and other income. These revenues are held in a separate Special Projects/Contingency Fund to support projects specifically approved by the Board.

	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
Oil and Gas	\$ 5,821,887	\$ 8,000,000	\$ 5,000,000	\$ (3,000,000)
Interest Income	2,573,045	1,600,000	2,750,000	1,150,000
Recreation Revenues	873,735	796,000	1,049,968	253,968
Leases, Permits, & Other Income	1,713,257	1,405,847	1,307,653	(98,194)
<b>Total Revenues</b>	<b>\$ 10,981,925</b>	<b>\$ 11,801,847</b>	<b>\$ 10,107,621</b>	<b>\$ (1,694,226)</b>

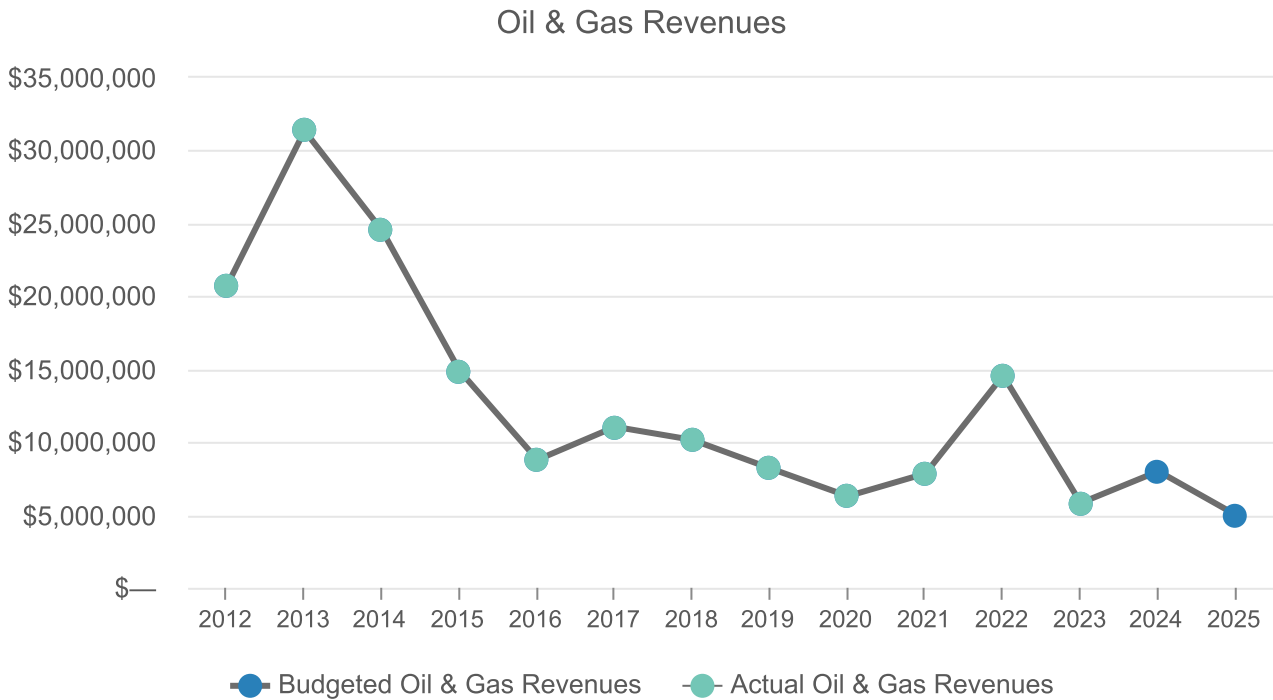
FY25 Budgeted Revenues



## Sources of Revenue Oil & 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 are set aside as a contingency.

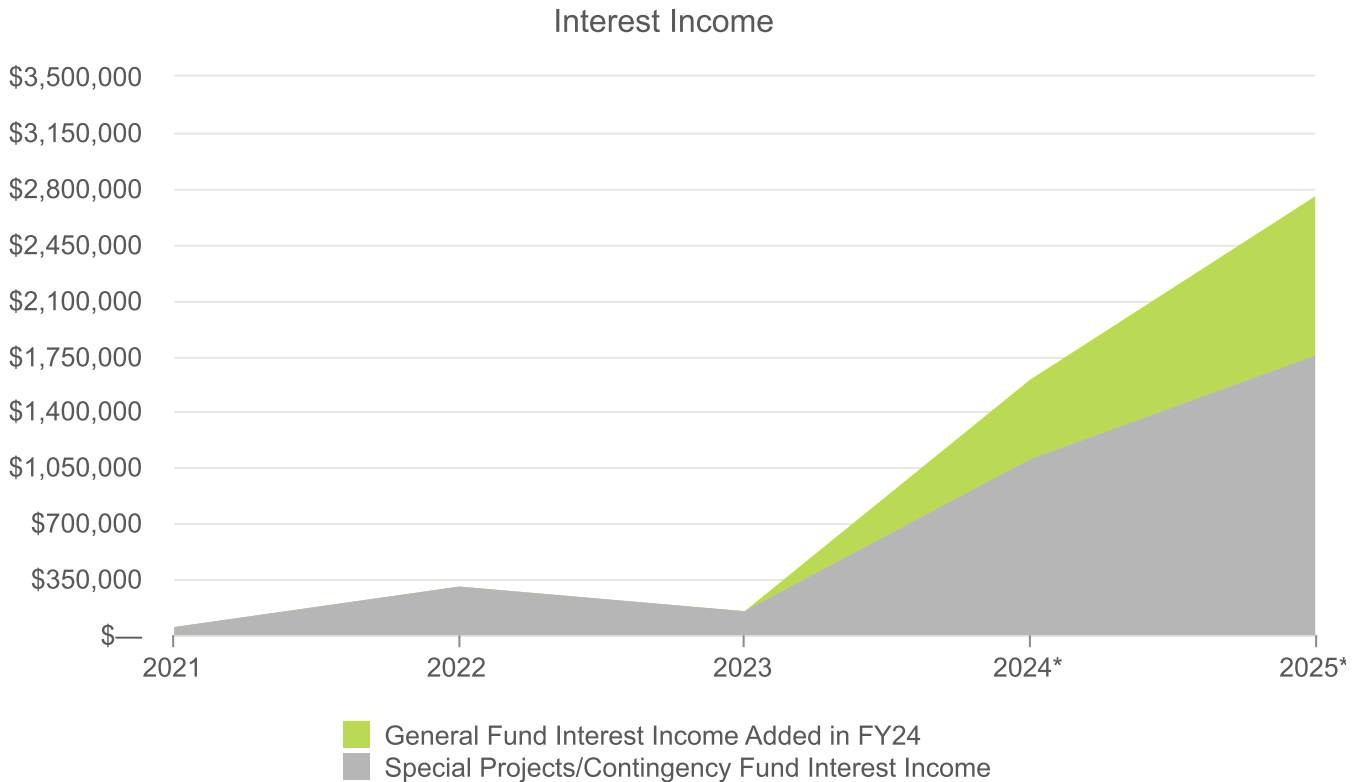
The chart below illustrates the actual revenues received from oil and gas royalties for the past 12 years with the budgeted revenues for fiscal year 2024 and fiscal year 2025. Prior to fiscal year 2020, oil and gas revenues were in the General Fund. In fiscal year 2020 these revenues were moved here to the Special Projects/Contingency Fund due to the variability of these revenue sources. Due to a drop in oil and gas revenues, the fiscal year 2025 budget has been reduced.



## Sources of Revenue Interest Income

The District invests in US government and agency fixed income securities as well as investments in Local Government Investment Pools. The portfolio has a maximum maturity of 3 years, but over half of the portfolio is typically invested in shorter term investments to be available if needed. To be conservative, the District is assuming a 2.5% interest rate in fiscal year 2025. Additionally, interest income from the General Fund was moved in fiscal year 2024 to the Special Projects/Contingency Fund due to its unpredictability as a revenue source. In fiscal year 2023 General Fund interest income earned in the General Fund was \$2.6 million.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
General Fund Interest Income	\$ —	\$ 500,000	\$ 1,000,000	\$ 500,000
Governmental Contingency Fund Interest Income	2,573,045	1,100,000	1,750,000	650,000
<b>Total Interest Income</b>	<b>\$ 2,573,045</b>	<b>\$ 1,600,000</b>	<b>\$ 2,750,000</b>	<b>\$ 1,150,000</b>



\*Budgeted amounts

**Sources of Revenue**  
**Leases, Permits & Other Income**

The District collects revenues from leases and permits paid to use District property. Historically, the revenues from leases of Coyote Drive-in, Woodshed Restaurant and other locations on Bridgeport and Eagle Mountain lakes were used to offset recreation-type expenditures. In fiscal year 2024 these related expenditures were moved to the General Fund to better align with the District's core mission, while their revenues remained in the Special Projects/Contingency Fund.

<b>Leases, Permits &amp; Other Income</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
Annex East, West and Garage Lease	\$ 602,392	\$ 602,391	\$ 602,391	\$ —
Coyote Drive-In Theater Lease	177,656	175,000	175,000	—
Woodshed Restaurant	192,617	175,000	175,000	—
Bridgeport/Eagle Mountain Leases	205,554	165,725	165,725	—
Other Floodway Leases & Permits	141,452	147,531	157,037	9,506
Land, Equipment, & Sand Sales	\$ 376,668	\$ 113,500	\$ 12,500	\$ (101,000)
Miscellaneous Revenues	16,919	26,700	20,000	(6,700)
<b>Total</b>	<b>\$ 1,713,257</b>	<b>\$ 1,405,847</b>	<b>\$ 1,307,653</b>	<b>\$ (98,194)</b>

**Recreation Revenues**

Recreation revenues are revenues earned in relation to recreation-type activities on District property. The majority of these revenues are boat ramp and park entry fees from Twin Points Park. The increase in Panther Island venue fees is based on an increase in scheduled events for fiscal year 2024, many of which are anticipated to occur again in fiscal year 2025. The recreation events revenues are earned on events like Fort Worth's Fourth and Flyfest, the bulk of which are estimated to be earned on Fort Worth's Fourth.

<b>Recreation Revenues</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
Twin Points Park Fees	575,682	550,000	550,000	—
Panther Island Venue Fees	212,961	150,000	270,968	120,968
Recreation Events	85,092	96,000	229,000	133,000
<b>Total</b>	<b>\$ 873,735</b>	<b>\$ 796,000</b>	<b>\$ 1,049,968</b>	<b>\$ 253,968</b>

# **Special Projects/Contingency Fund: Debt Service/Project Costs**

**TIF Revenues and Debt for the Central City Flood Control 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 Central City Flood Control 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, both the TIF revenue and debt service expense are shown in the Special Projects/Contingency Fund. The table below illustrates how the TIF Revenues collected will directly offset the budgeted debt expenditures for fiscal year 2025.

<b>Debt Service</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
Debt Service / Project Costs	\$ 8,149,492	\$ 7,577,446	\$ 8,446,348	\$ 868,902
NCTCOG Bridge Payment	350,000	350,000	350,000	—
TIF Revenues	(8,110,938)	(7,927,446)	(8,796,348)	(868,902)
<b>Net Change in Debt Service Equity</b>	<b>\$ (388,554)</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>

**Central City Flood Control Project  
Proposed FY25 Budget**

<b>TRWD</b>	<b>FY25 Budget Proposed</b>
Cash Match	\$ 5,500,000
Bypass Local Share (Pedestrian Bridge Design)	9,904,596
Land Acquisition	2,494,913
Program Management	1,015,395
Relocation	705,235
Demolition	862,508
Environmental	2,580,000
NCTCOG Bridge Repayment	350,000
Bond Issuance Costs	30,000
<b>Subtotal TRWD</b>	<b>\$ 23,442,647</b>

<b>City of Fort Worth</b>	<b>FY25 Budget Proposed</b>
Sewer & Water Relocation Reimbursement	\$ 40,014,921
Storm Water Relocation	19,900,335
Franchise Utilities	1,715,416
Gateway Park	\$ 322,627
<b>Subtotal City of Fort Worth</b>	<b>\$ 61,953,299</b>

<b>Total Central City Flood Control Project</b>	<b>\$ 85,395,946</b>
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**Special Projects/Contingency Fund - FY25 Budget**

<b>Expenditures</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>	<b>Notes</b>
Canals	\$ 13,911	\$ 3,000,000	\$ 45,000,000	\$ 42,000,000	1400.00 %	1
Panther Island Consulting	—	—	350,000	350,000	100.00 %	2
La Grave Stadium Demolition	—	195,000	200,000	5,000	2.56 %	
Land Strategy	148,461	100,000	100,000	—	— %	
<b>Total Expenditures</b>	<b>\$ 162,372</b>	<b>\$ 3,295,000</b>	<b>\$ 45,650,000</b>	<b>\$ 42,355,000</b>	<b>1285.43 %</b>	

<b>Revenues</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>	<b>Notes</b>
Oil and Gas	\$ 5,821,887	\$ 8,000,000	\$ 5,000,000	\$ (3,000,000)	(37.50)%	3
Interest Income	2,573,045	1,600,000	2,750,000	1,150,000	71.88 %	4
Recreation Revenues	873,735	796,000	1,049,968	253,968	31.91 %	5
Leases, Permits, & Other Income	1,713,257	1,405,847	1,307,653	(98,194)	(6.98)%	
<b>Total Revenues</b>	<b>\$ 10,981,925</b>	<b>\$ 11,801,847</b>	<b>\$ 10,107,621</b>	<b>\$ (1,694,226)</b>	<b>(14.36)%</b>	

<b>Debt Service / Central City Project</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>	<b>Notes</b>
Debt Service / Project Costs	\$ 8,149,492	\$ 7,577,446	\$ 8,446,348	\$ 868,902	11.47 %	
NCTCOG Bridge Payment	350,000	350,000	350,000	—	— %	
TIF Revenues	(8,110,938)	(7,927,446)	(8,796,348)	(868,902)	10.96 %	
<b>Net Project Expenses</b>	<b>\$ (388,554)</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>100.00 %</b>	

<b>Net Increase to Equity</b>	<b>\$ 7,762,739</b>	<b>\$ 8,506,847</b>	<b>\$ (35,542,379)</b>	<b>\$ (44,049,226)</b>	<b>(517.81)%</b>	
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## **Variance Explanations**

- 1. Canals** - As part of its flood control mission, TRWD will need to build canals just north of downtown (Panther Island) that will function as flood control and stormwater transmission.
- 2. Panther Island Consulting** - Panther Island consulting fees are for costs related to Panther Island development.
- 3. Oil and Gas Revenues** - Due to a drop in oil and gas revenues, the fiscal year 2025 budget has been reduced.
- 4. Interest Income** - To be conservative, the District is assuming a 2.5% interest rate for short-term investments for fiscal year 2025.
- 5. Recreation Revenues** - The majority of this increase is due to increased sponsorship revenues planned for Fort Worth's Fourth and an increase in scheduled activities at the Panther Island Pavilion.

## TARRANT REGIONAL WATER DISTRICT

### AGENDA ITEM 7

**DATE:** September 17, 2024

**SUBJECT:** Consider Approval of Fiscal Year 2025 Revenue Fund Budget

**FUNDING:** Fiscal Year 2025 Revenue Fund

**RECOMMENDATION:**

Management recommends approval of the proposed Fiscal Year 2025 Revenue Fund budgeted expenditures of \$186,585,960.

**DISCUSSION:**

The proposed Revenue Fund Budget consists of Water Supply expenditures of \$186,585,960 offset by projected non-contract revenues of \$10,095,000 for a proposed net revenue requirement from contract customers of \$176,490,960.

The resulting proposed budgeted water rate for FY 2025 is \$1.40014.

The Board of Directors met on July 25, 2024, for the proposed Revenue Fund budget workshop. Since that time no changes have been made.

The Customer Advisory Committee met on September 9, 2024, and recommends the proposed FY 2025 Revenue Fund budget for Water Supply to the TRWD Board of Directors.

The Revenue Fund budget being recommended to the Board is shown on the next page. Please see attached Revenue Fund budget book for further details.

**Submitted By:**

Sandy Newby  
Chief Financial Officer

## Revenue Fund FY25 Budget

Expenditures	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %
<b>Debt Service</b>	\$ 73,355,233	\$ 83,204,886	\$ 89,713,179	\$ 6,508,293	7.82 %
<b>Pumping Power</b>	20,272,037	18,000,000	19,000,000	1,000,000	5.56 %
<b>Maintenance</b>					
Pipeline & Pump Station	\$ 3,896,414	\$ 5,335,000	\$ 5,490,500	\$ 155,500	2.91 %
Pipeline Chemicals	1,354,880	2,210,000	1,830,000	(380,000)	(17.19)%
Facilities & Grounds Maintenance	1,651,661	2,352,605	3,293,430	940,825	39.99 %
Equipment & Fleet	895,465	978,266	1,240,440	262,174	26.80 %
Maintenance Support	826,600	964,965	971,950	6,985	0.72 %
Benbrook Reservoir O&M	676,339	650,000	650,000	—	— %
Stream Gauging Stations	178,200	195,000	315,000	120,000	61.54 %
Total Maintenance	9,479,559	12,685,836	13,791,320	1,105,484	8.71 %
<b>System Improvements &amp; Capital Equipment</b>	\$ 13,729,797	\$ 10,546,929	\$ 13,875,245	\$ 3,328,316	31.56 %
<b>Water Quality Programs &amp; Watershed Protection</b>					
Water Conservation Program	\$ 2,606,398	\$ 3,096,002	\$ 3,410,502	\$ 314,500	10.16 %
Watershed Protection	154,315	405,650	405,650	—	— %
Water Quality Programs	299,699	437,960	416,961	(20,999)	(4.79)%
Public Outreach & Events	72,701	84,843	130,429	45,586	53.73 %
Total Watershed Protection & Environmental Stewardship	3,133,111	4,024,455	4,363,542	339,087	8.43 %
<b>Support Services</b>					
Employee Related	\$ 28,128,990	\$ 33,801,466	\$ 36,350,953	\$ 2,549,487	7.54 %
Professional Services	2,367,791	3,611,903	4,136,404	524,501	14.52 %
Administrative Support	2,549,365	2,982,282	2,840,243	(142,039)	(4.76)%
Information Technology	2,175,609	2,905,933	2,515,074	(390,860)	(13.45)%
Total Support Services	35,221,755	43,301,584	45,842,673	2,541,089	5.87 %
<b>Total Expenditures</b>	<b>\$ 155,191,492</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>\$ 14,822,269</b>	<b>8.63 %</b>

### System Rate Calculation

The sale of water revenue is estimated using the budgeted raw water rate multiplied by the estimated water usage for fiscal year 2025. This budgeted rate, expressed in dollars per 1,000 gallons, is calculated by taking the budgeted expenditures for fiscal year 2025, 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 other customers' estimated usage is based on historical data combined with overall customer trends.

<b>Net System Revenue Requirements</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>
Total Expenditures	\$ 155,191,492	\$ 171,763,691	\$ 186,585,960	\$ 14,822,269	8.63 %
Less: Other Revenues Not Through Sale of Water	(9,384,504)	(7,672,317)	(10,095,000)	(2,422,683)	31.58 %
<b>Net System Revenue Requirement</b>	<b>\$ 145,806,988</b>	<b>\$ 164,091,374</b>	<b>\$ 176,490,960</b>	<b>\$ 12,399,586</b>	<b>7.56 %</b>

<b>Projected Usage Gallonage (000's)</b>	<b>FY23 Actual Water Usage</b>	<b>FY24 Budgeted Water Usage</b>	<b>FY25 Budgeted Water Usage</b>	<b>Variance</b>	<b>Change %</b>
Fort Worth	81,801,560	72,796,920	75,138,820	2,341,900	3.22 %
Arlington	20,887,751	19,064,016	19,863,483	799,467	4.19 %
Trinity River Authority	13,344,656	11,670,485	12,511,573	841,088	7.21 %
Mansfield	6,490,665	6,163,193	6,656,180	492,987	8.00 %
Other Customers	13,960,697	11,425,000	11,882,000	457,000	4.00 %
<b>Total Gallonage (000's)</b>	<b>136,485,329</b>	<b>121,119,614</b>	<b>126,052,056</b>	<b>4,932,442</b>	<b>4.07 %</b>

<b>Calculated System Rate</b>	<b>FY23 Actual Rate</b>	<b>FY24 Budgeted Approved Rate</b>	<b>FY25 Budgeted Proposed Rate</b>	<b>Variance</b>	<b>Change %</b>
District Rate	\$ 1.06830	\$ 1.35479	\$ 1.40014	\$ 0.04535	3.35 %

# Revenue Fund Water Supply



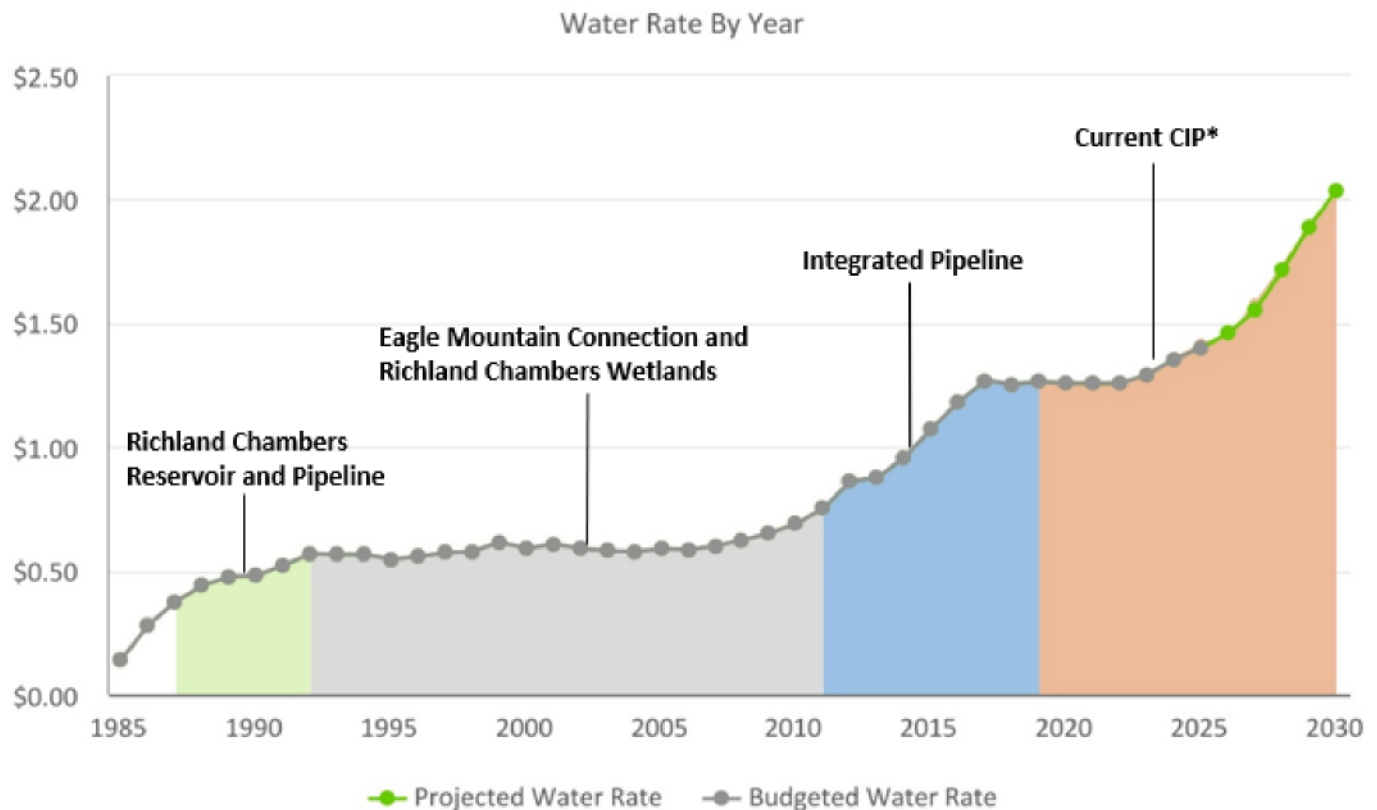
## TRWD Revenue Fund - Water Supply FY25 Budget Highlights

Tarrant Regional Water District ("the District") exists to enrich communities and improve the quality of life through water supply and flood control. The District has approved a strategic plan to invest in our people, meet the rapid growth in our communities, further enhance our fiscal responsibility, and improve community stewardship.

The Revenue Fund budget for fiscal year 2025 shows an increase in the water rate due to \$1 billion of large capital projects over the next 5 years and higher maintenance and support services costs. All of these cost increases are described in more detail in the expense portion of the budget.

Some of the major projects in current CIP are shown below.

- **Cedar Creek Wetlands** – This wetland facility is planned to allow water reclamation and enhance storage supply and yield of Cedar Creek Reservoir.
- **Aging Infrastructure Replacements** – The Cedar Creek Pipeline Replacement project is replacing distressed pipe on the 50 year old pipeline (see CIP presentation for age). The older pipe is being replaced with larger 90" and 102" welded steel pipes which will provide increased water deliver capacity.
- **Expanded Balancing Reservoir Capacity** - The KBR Phase 4 project is adding a new 165-million-gallon third cell at KBR providing additional emergency storage and optimized time-of-day capability.
- **Operations Facility** - The older operations facility no longer met work needs of staff and material storage was beyond maximum capacity; the new compound will accommodate the current workload and allow for future growth.
- **IPL Connection to Richland Chambers** - The new Section 16 IPL Pipeline will connect the future JRC1 pump station on Richland Chambers reservoir to the rest of the IPL water transmission system.



## TRWD Revenue Fund - Water Supply FY25 Budget Summary

### TRWD Purpose

Enriching communities and improving the quality of life through water supply, flood control, and recreation.

### Water Supply Overview

TRWD supplies water to more than 2 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 50 direct wholesale customers in north central Texas, the largest of which include Fort Worth, Arlington, Mansfield, and the Trinity River Authority.

The District's service area population is projected to nearly double in the next 50 years. In anticipation of this growth, the District has begun planning for enough new water supply sources to provide water supply reliability through the year 2050. TRWD is developing a long-range water supply resilience and diversification plan to ensure a reliable water supply in extreme and challenging conditions, including power outages and climate change. TRWD is also pioneering the work to determine how to optimize regional water supply across north central Texas.

Below is the proposed Revenue Fund budget for fiscal year 2025. The Revenue Fund is supported by annual revenues from water sales and other miscellaneous income items that cover 100% of the annual cost of building, operating, and maintaining the Water Supply System.

Additionally, the District has a Contingency Fund (established per Bond Covenants) in the event of an unexpected system cost, that must have a minimum of \$1.1 million. The Advisory Committee has directed that all customer buy-in premiums and related interest income also be deposited to this fund. The Contingency Fund currently has a balance of approximately \$19 million.

### Proposed FY25 Revenue Fund Budget

Expenditures	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Change %
Operating Expenditures	\$ 68,106,462	\$ 78,011,875	\$ 82,997,536	6.39 %
System Improvements & Capital Equipment	13,729,797	10,546,929	13,875,245	31.56 %
Debt Service	73,355,233	83,204,886	89,713,179	7.82 %
<b>Total Expenditures</b>	<b>\$ 155,191,492</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>8.63 %</b>

Revenues	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Change %
Sale of Water	\$ 145,806,936	\$ 164,091,374	\$ 176,490,960	7.56 %
Dallas Water Utility - IPL	2,225,253	3,590,578	3,975,000	10.71 %
Interest Income	3,718,278	1,600,000	3,500,000	118.75 %
Water Conservation Contributions	1,179,296	1,229,768	1,229,768	— %
Other Income	2,261,729	1,251,971	1,390,232	11.04 %
<b>Total Revenues</b>	<b>\$ 155,191,492</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>8.63 %</b>

	FY23 Actual Rate	FY24 Budgeted Approved Rate	FY25 Budgeted Proposed Rate	Change %
System Rate	\$ 1.06830	\$ 1.35479	\$ 1.40014	3.35 %

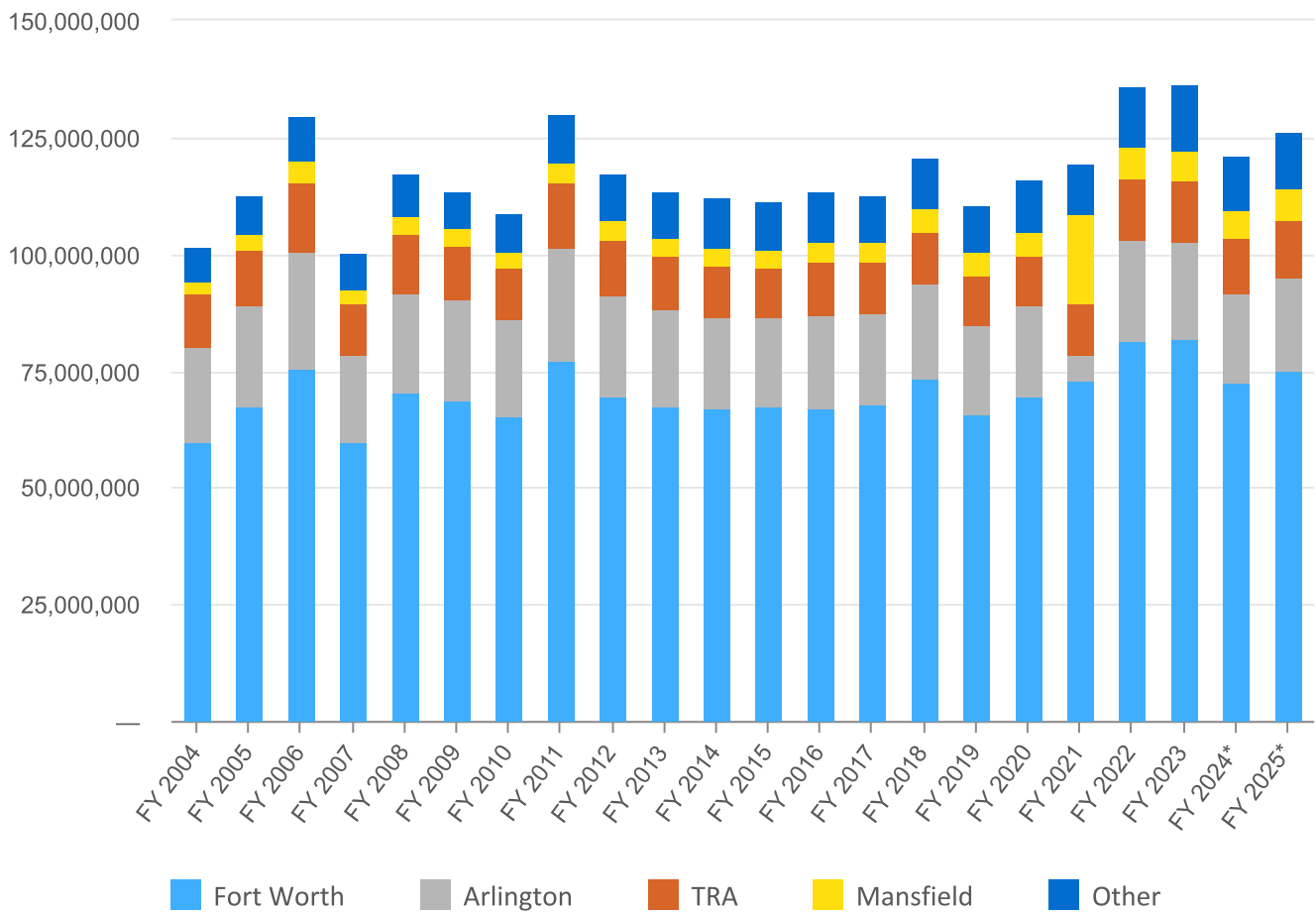
## Water Supply Demands

Demand for water supply is based on many factors including population growth, water conservation, weather patterns, lake levels, and changing population lifestyles. All of these factors impact both current and future demands. The District continues to focus on water affordability as well as preparing for those future demands.

The graph below shows water usage for the past 20 years and budgeted usage for fiscal years 2024 and 2025. The District is currently preparing for future demands by expanding transmission system infrastructure, developing new sources of supply, and replacing aging infrastructure.

Note that the timing for new water supply sources and transmission system expansion is based on projections for dry-year usage to ensure adequate system capacity for all customers during those years. In the graph below, the years 2006, 2011, 2022, and 2023 are examples of dry years with higher water usage. The data from these types of years is considered and provides valuable input for the models that project future dry-year water supply needs.

Usage by Customer (000's gallons)



\*Budgeted Usage



### System Rate Calculation

The sale of water revenue is estimated using the budgeted raw water rate multiplied by the estimated water usage for fiscal year 2025. This budgeted rate, expressed in dollars per 1,000 gallons, is calculated by taking the budgeted expenditures for fiscal year 2025, 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 other customers' estimated usage is based on historical data combined with overall customer trends.

<b>Net System Revenue Requirements</b>	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>	<b>Change %</b>
Total Expenditures	\$ 155,191,492	\$ 171,763,691	\$ 186,585,960	\$ 14,822,269	8.63 %
Less: Other Revenues Not Through Sale of Water	(9,384,504)	(7,672,317)	(10,095,000)	(2,422,683)	31.58 %
<b>Net System Revenue Requirement</b>	<b>\$ 145,806,988</b>	<b>\$ 164,091,374</b>	<b>\$ 176,490,960</b>	<b>\$ 12,399,586</b>	<b>7.56 %</b>

<b>Projected Usage Gallonage (000's)</b>	<b>FY23 Actual Water Usage</b>	<b>FY24 Budgeted Water Usage</b>	<b>FY25 Budgeted Water Usage</b>	<b>Variance</b>	<b>Change %</b>
Fort Worth	81,801,560	72,796,920	75,138,820	2,341,900	3.22 %
Arlington	20,887,751	19,064,016	19,863,483	799,467	4.19 %
Trinity River Authority	13,344,656	11,670,485	12,511,573	841,088	7.21 %
Mansfield	6,490,665	6,163,193	6,656,180	492,987	8.00 %
Other Customers	13,960,697	11,425,000	11,882,000	457,000	4.00 %
<b>Total Gallonage (000's)</b>	<b>136,485,329</b>	<b>121,119,614</b>	<b>126,052,056</b>	<b>4,932,442</b>	<b>4.07 %</b>

<b>Calculated System Rate</b>	<b>FY23 Actual Rate</b>	<b>FY24 Budgeted Approved Rate</b>	<b>FY25 Budgeted Proposed Rate</b>	<b>Variance</b>	<b>Change %</b>
District Rate	\$ 1.06830	\$ 1.35479	\$ 1.40014	\$ 0.04535	3.35 %

### System Rate Model

The District utilizes a rate model to project future water rates. The District’s estimated water supply expenses are combined with projections for raw water usage to calculate a projected water rate for future years. Projected Operations and Maintenance expenses are estimated to increase 10% each year, while Pumping Power and Capital/System Improvements are generally held steady. Usage projections for fiscal year 2025 are provided by the customers. Usage for future years is the greater of customer projections or the dry-year model projections.

	FY24 Approved	FY25 Proposed	FY26 Projected	FY27 Projected
<b>SYSTEM OPERATIONS</b>				
Operations and Maintenance	\$ 60,107,126	\$ 63,997,536	\$ 70,397,289	\$ 77,437,018
Pumping Power	18,000,000	19,000,000	19,000,000	19,000,000
Capital & System Improvements	10,451,679	13,875,245	10,000,000	10,000,000
<b>TOTAL SYSTEM OPERATIONS</b>	<b>88,558,805</b>	<b>96,872,781</b>	<b>99,397,289</b>	<b>106,437,018</b>
<b>CURRENT DEBT SERVICE</b>	<b>\$ 77,417,986</b>	<b>\$ 79,985,204</b>	<b>\$ 79,967,747</b>	<b>\$ 80,016,496</b>
<b>PROPOSED BOND DEBT SERVICE</b>				
ECP Bonds	5,757,900	5,565,000	3,000,000	3,000,000
2025 Issue - \$150 mil		4,133,625	10,641,375	10,641,500
2026 Issue - \$150 mil			4,133,625	10,641,375
2027 Issue - \$270 mil				7,202,875
2028 Issue - \$270 mil				
2029 Issue - \$270 mil				
2030 Issue - \$240 mil				
BOND PAYING AGENT FEES	29,000	29,350	29,700	30,050
<b>TOTAL PROPOSED BOND DEBT SERVICE</b>	<b>5,786,900</b>	<b>9,727,975</b>	<b>17,804,700</b>	<b>31,515,800</b>
<b>TOTAL DEBT SERVICE</b>	<b>83,204,886</b>	<b>89,713,179</b>	<b>97,772,447</b>	<b>111,532,296</b>
<b>TOTAL EXPENDITURES</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>\$ 197,169,736</b>	<b>\$ 217,969,314</b>
<b>LESS: OTHER INCOME</b>	<b>\$ 7,672,317</b>	<b>\$ 10,095,000</b>	<b>\$ 10,420,000</b>	<b>\$ 11,120,000</b>
<b>NET SYSTEM REQUIREMENTS</b>	<b>\$ 164,091,374</b>	<b>\$ 176,490,960</b>	<b>\$ 186,749,736</b>	<b>\$ 206,849,314</b>
<b>PROJECTED WATER USE (1000 GAL.)</b>				
	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
FORT WORTH	72,796,920	75,138,820	75,432,760	79,905,342
ARLINGTON	19,064,016	19,863,483	21,197,676	21,456,887
TRINITY RIVER AUTHORITY	11,670,485	12,511,573	12,728,432	12,849,897
MANSFIELD	6,163,193	6,656,180	6,789,304	6,925,090
OTHER	11,425,000	11,882,000	12,100,000	12,300,000
<b>TOTAL USAGE</b>	<b>121,119,614</b>	<b>126,052,056</b>	<b>128,248,172</b>	<b>133,437,216</b>
<b>PROJECTED SYSTEM WATER RATES (\$/1000 GAL.)</b>				
<b>System Rate</b>	<b>\$ 1.35479</b>	<b>\$ 1.40014</b>	<b>\$ 1.45616</b>	<b>\$ 1.55016</b>
<b>PROJECTED SYSTEM REVENUE: (\$)</b>				
FORT WORTH	\$ 98,624,378	\$ 105,205,126	\$ 109,842,096	\$ 123,866,232
ARLINGTON	25,827,696	27,811,725	30,867,188	33,261,653
TRINITY RIVER AUTHORITY	15,811,031	17,517,997	18,534,621	19,919,423
MANSFIELD	8,349,819	9,319,607	9,886,306	10,735,012
OTHER	15,478,450	16,636,504	17,619,525	19,066,994
<b>TOTAL SYSTEM REVENUE</b>	<b>\$ 164,091,374</b>	<b>\$ 176,490,960</b>	<b>\$ 186,749,736</b>	<b>\$ 206,849,314</b>

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## System Rate Model

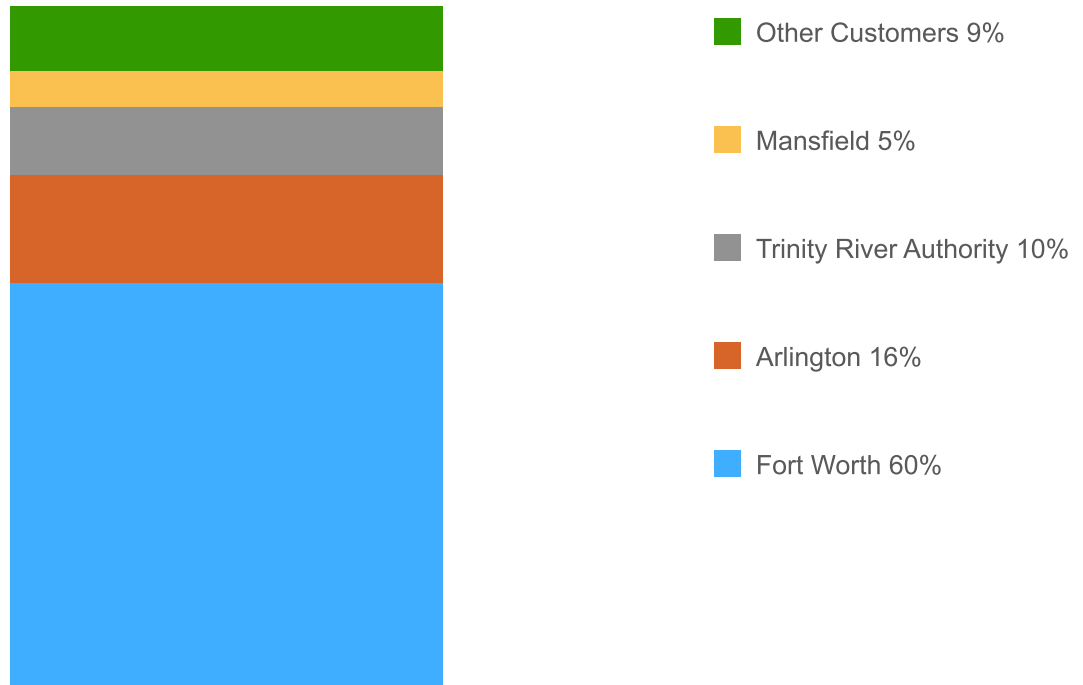
	FY28 Projected	FY29 Projected	FY30 Projected
<b>SYSTEM OPERATIONS</b>			
Operations and Maintenance	\$ 85,180,720	\$ 94,763,221	\$ 105,995,850
Pumping Power	19,000,000	19,000,000	19,000,000
Capital & System Improvements	10,000,000	10,000,000	10,000,000
<b>TOTAL SYSTEM OPERATIONS</b>	<b>114,180,720</b>	<b>123,763,221</b>	<b>134,995,850</b>
CURRENT DEBT SERVICE	\$ 79,914,963	\$ 79,862,226	\$ 75,639,440
<b>PROPOSED BOND DEBT SERVICE</b>			
ECP Bonds	3,000,000	3,000,000	3,000,000
2025 Issue - \$150 mil	10,640,250	10,642,250	10,642,125
2026 Issue - \$150 mil	10,641,500	10,640,250	10,642,250
2027 Issue - \$270 mil	18,539,750	18,542,250	18,543,500
2028 Issue - \$270 mil	7,202,875	18,539,750	18,542,250
2029 Issue - \$270 mil		7,202,875	18,539,750
2030 Issue - \$240 mil			6,473,000
BOND PAYING AGENT FEES	30,400	30,750	31,100
TOTAL PROPOSED BOND DEBT SERVICE	50,054,775	68,598,125	86,413,975
<b>TOTAL DEBT SERVICE</b>	<b>129,969,738</b>	<b>148,460,351</b>	<b>162,053,415</b>
<b>TOTAL EXPENDITURES</b>	<b>\$ 244,150,458</b>	<b>\$ 272,223,572</b>	<b>\$ 297,049,265</b>
<b>LESS: OTHER INCOME</b>	<b>\$ 11,820,000</b>	<b>\$ 12,020,000</b>	<b>\$ 12,220,000</b>
<b>NET SYSTEM REQUIREMENTS</b>	<b>\$ 232,330,458</b>	<b>\$ 260,203,572</b>	<b>\$ 284,829,265</b>
<b>PROJECTED WATER USE (1000 GAL.)</b>			
	<b>2028</b>	<b>2029</b>	<b>2030</b>
FORT WORTH	81,328,036	82,750,729	84,173,422
ARLINGTON	21,716,098	21,975,309	22,234,520
TRINITY RIVER AUTHORITY	12,978,396	13,138,156	13,238,156
MANSFIELD	7,063,592	7,204,864	7,304,864
OTHER	12,500,000	12,700,000	12,900,000
<b>TOTAL USAGE</b>	<b>135,586,122</b>	<b>137,769,058</b>	<b>139,850,962</b>
<b>PROJECTED SYSTEM WATER RATES (\$/1000 GAL.)</b>			
<b>System Rate</b>	<b>\$ 1.71353</b>	<b>\$ 1.88869</b>	<b>\$ 2.03666</b>
<b>PROJECTED SYSTEM REVENUE: (\$)</b>			
FORT WORTH	\$ 139,357,772	\$ 156,290,793	\$ 171,432,885
ARLINGTON	37,211,117	41,504,631	45,284,222
TRINITY RIVER AUTHORITY	22,238,830	24,813,954	26,961,661
MANSFIELD	12,103,654	13,607,782	14,877,545
OTHER	21,419,085	23,986,412	26,272,951
<b>TOTAL SYSTEM REVENUE</b>	<b>\$ 232,330,458</b>	<b>\$ 260,203,572</b>	<b>\$ 284,829,265</b>

### Water Usage Projections

The District's four primary customers, the cities of Fort Worth, Arlington, Mansfield, and the Trinity River Authority, provide an estimate of their usage to the District each year. The usage for other customers is estimated using historical data of reported usage.

Gallage (000'S)	FY23 Actual Water Usage	FY24 Budgeted Water Usage	FY25 Budgeted Water Usage	Variance	Change %
Fort Worth	81,801,560	72,796,920	75,138,820	2,341,900	3.22 %
Arlington	20,887,751	19,064,016	19,863,483	799,467	4.19 %
Trinity River Authority	13,344,656	11,670,485	12,511,573	841,088	7.21 %
Mansfield	6,490,665	6,163,193	6,656,180	492,987	8.00 %
Other Customers	13,960,697	11,425,000	11,882,000	457,000	4.00 %
<b>Total Gallage (000's)</b>	<b>136,485,329</b>	<b>121,119,614</b>	<b>126,052,056</b>	<b>4,932,442</b>	<b>4.07 %</b>

FY25 Budgeted Water Usage



# Revenue Fund: Expenditures

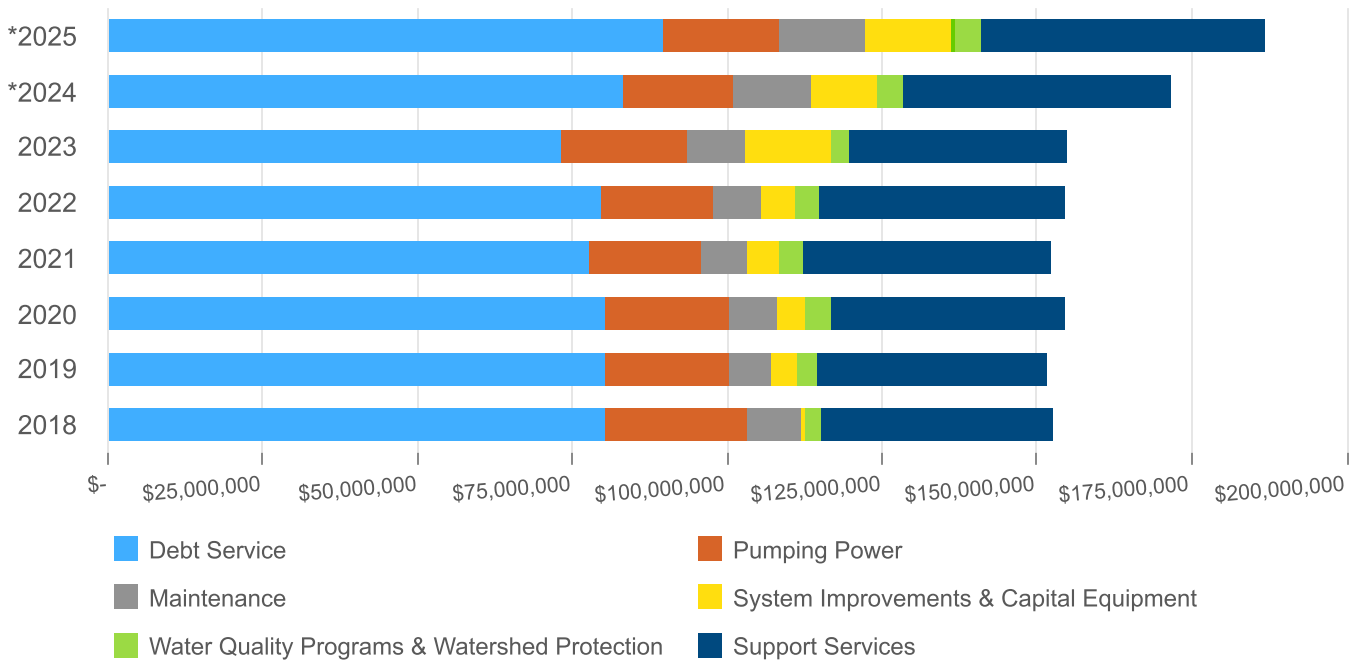
## Expenditures Summary

Delivering a reliable and resilient water supply to over 2 million customers requires a combination of long-term planning and constant evaluation of the current system needs. Pumping power and maintenance provide a consistent supply of water through the existing system, while debt issuances for large capital projects, system improvements, and capital equipment allow the District to continue building the system needed to meet the rapid growth in the community. In fiscal year 2025, all of these areas are budgeted to increase due to large capital projects, aging infrastructure, and system studies for long-term planning and efficiencies.

The system is supported through administrative and professional services, information technology, and a diverse, well-trained workforce committed to being ready when the public needs them most. The fiscal year 2025 budget includes increases in headcount and technology to match the increasing system size.

Budget Categories	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Debt Service	\$ 73,355,233	\$ 83,204,886	\$ 89,713,179	\$ 6,508,293
Pumping Power	20,272,037	18,000,000	19,000,000	1,000,000
Maintenance	9,479,559	12,685,836	13,791,320	1,105,484
System Improvements & Capital Equipment	13,729,797	10,546,929	13,875,245	3,328,316
Water Quality Programs & Watershed Protection	3,133,111	4,024,455	4,363,542	339,087
Support Services	35,221,755	43,301,584	45,842,673	2,541,089
<b>Total Expenditures</b>	<b>\$ 155,191,492</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>\$ 14,822,269</b>

### Revenue Fund Expenditures



\*Budgeted amounts

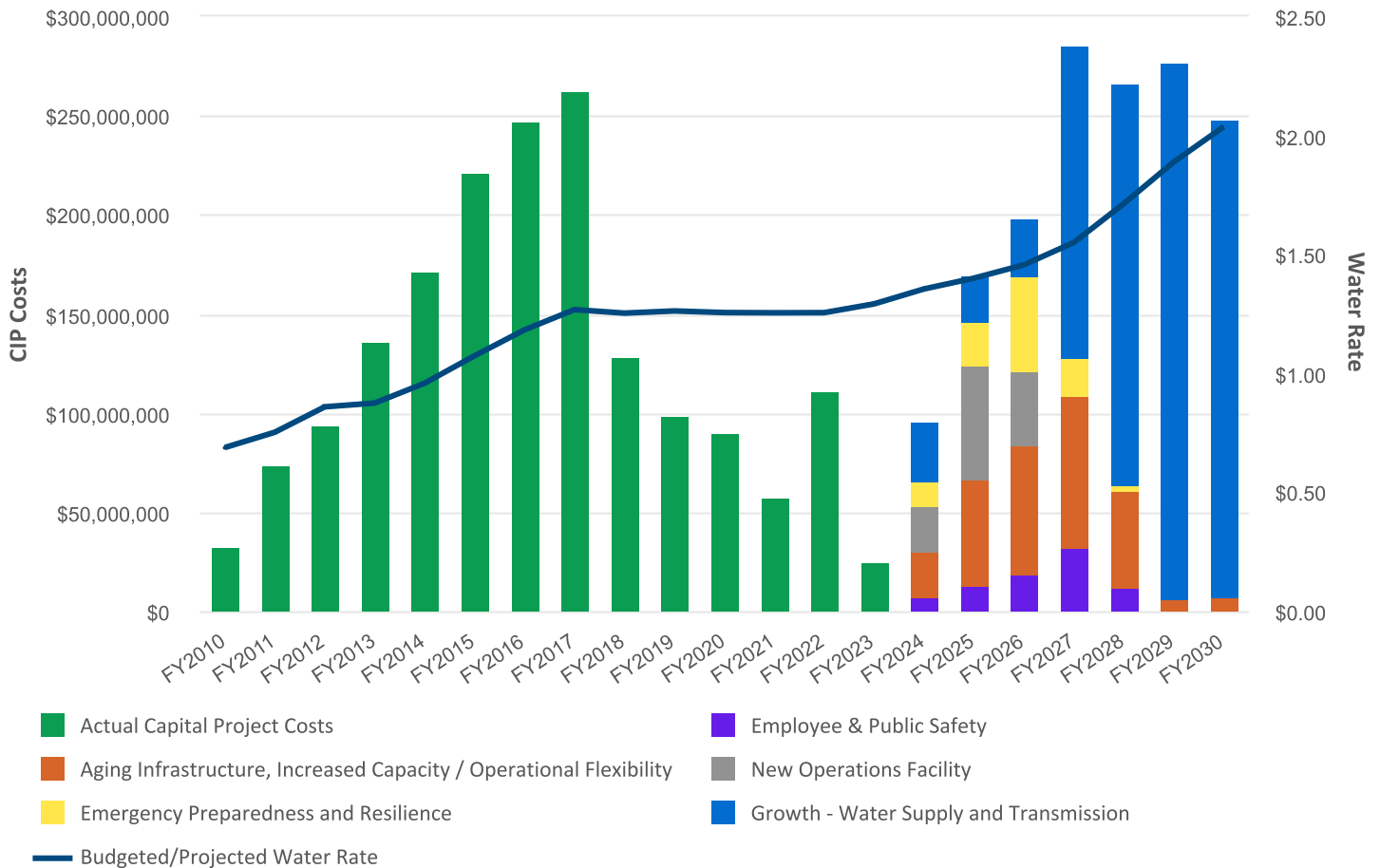
### Debt Service Expenditures

The District is sensitive to the tension always present in providing reliable water supply service at the most affordable level. One key factor in keeping the water supply rate low is the issuance of debt, which distributes costs between current and future rate payers.

The \$6.5 million increase in debt service is due to the \$100 million 2024 bond issuance and the anticipated \$150 million 2025 bond issuance to support large capital projects, including the new Cedar Creek wetlands, replacement of aging infrastructure, expanded balancing reservoir capacity, a new operations facility, and the start of the IPL connection to Richland Chambers.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Bonds Payable	\$ 40,255,000	\$ 41,150,000	\$ 40,895,000	\$ (255,000)
Interest Expense	33,071,744	36,271,336	43,223,829	6,952,493
ECP Bonds	—	5,757,900	5,565,000	(192,900)
Bond Issuance Expense	23,000	20,000	23,000	3,000
Paying Agent Fees	5,489	5,650	6,350	700
<b>Total Debt Service</b>	<b>\$ 73,355,233</b>	<b>\$ 83,204,886</b>	<b>\$ 89,713,179</b>	<b>\$ 6,508,293</b>

Capital Improvements by Year - Adopted CIP

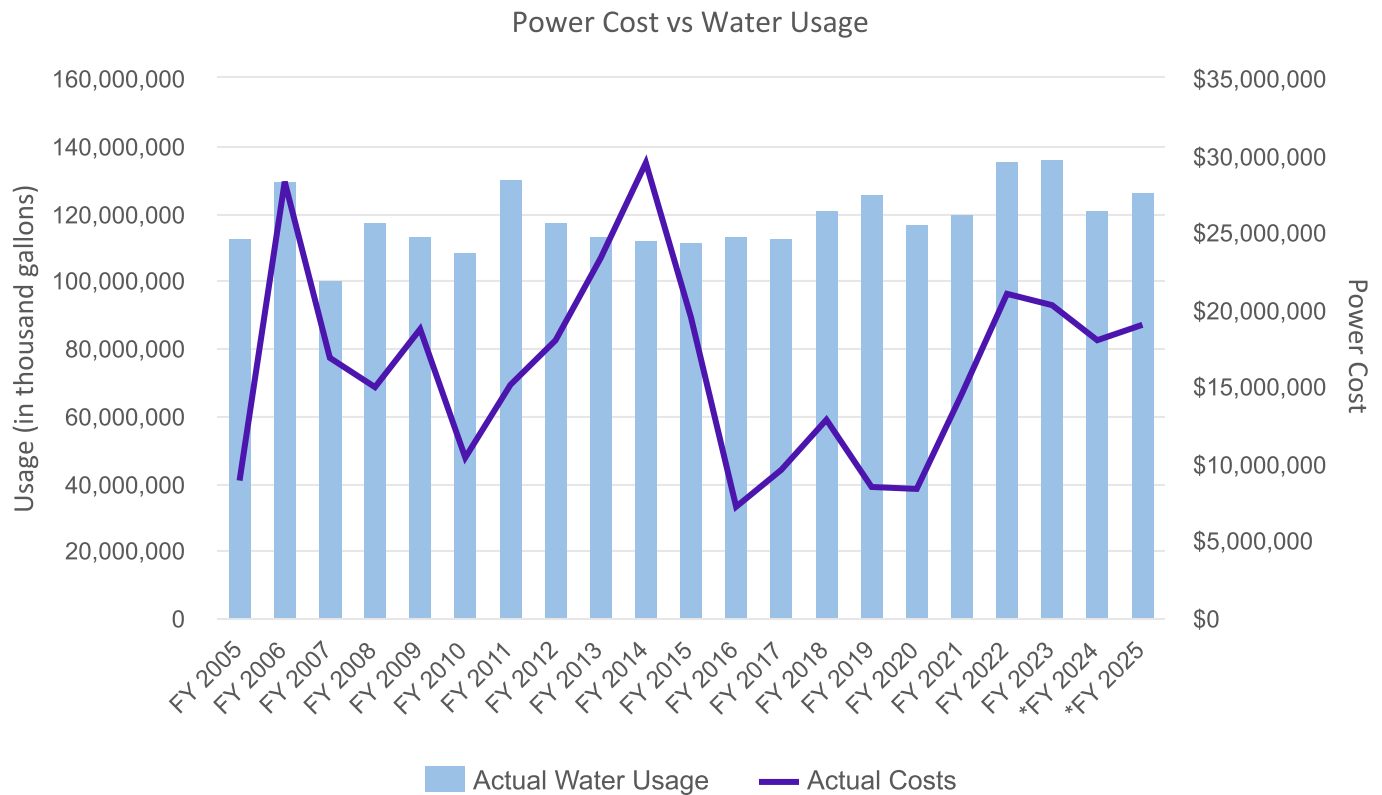


### Pumping Power Expenditures

Pumping power is the cost of electricity needed to deliver water to the District's customers. Water usage and costs do not always have a direct correlation. From fiscal year 2014 to fiscal year 2016 the actual water usage stayed fairly level, but the cost of power dropped from \$30 million to \$10 million. The greater impact on actual costs is the amount of rainfall leading into the fiscal year and the overall unit cost of electricity.

Due to the unpredictability of rainfall and power costs, the District and the Customer Advisory Committee have agreed to maintain a steady pumping power budget to reduce budget volatility since the amount of water to be pumped each year can fluctuate greatly. To help offset costs in years where pumping power is higher than budget, the customers also approved a pumping power contingency fund that is currently fully funded at \$5 million. However, this year the District is recommending a \$1 million increase to the pumping power budget due to a significant increase in the price of electricity.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Pumping Power	\$ 20,272,037	\$ 18,000,000	\$ 19,000,000	\$ 1,000,000



\*Budgeted amounts



## Maintenance Expenditures

The water supply maintenance budget consists of the costs needed to keep the existing water supply system functioning as intended. More than half of the District's maintenance costs are for maintaining the pipeline and pump stations that move water from the reservoirs to the customers.

Facilities & Grounds Maintenance increased in fiscal year 2025 due to an increase in the cost of mowing and maintaining the pipeline right of way both due to higher pricing as well as a larger area to maintain now that the entire core section of the IPL is being maintained, reservoir release warning system upgrades, and HVAC replacements at multiple pipeline facilities.

Pipeline Chemical costs are estimated by evaluating pumping demand projections and projected market costs for chemicals driven by industry demands. The decrease in the pipeline chemicals budget is due in large part to a recent drop in pipeline chemical prices.

Equipment & Fleet has increased due to the cost of maintaining additional vehicles, which are needed due to an increase in personnel.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Pipeline & Pump Station	\$ 3,896,414	\$ 5,335,000	\$ 5,490,500	\$ 155,500
Pipeline Chemicals	1,354,880	2,210,000	1,830,000	(380,000)
Facilities & Grounds Maintenance	1,651,661	2,352,605	3,293,430	940,825
Equipment & Fleet	895,465	978,266	1,240,440	262,174
Maintenance Support	826,600	964,965	971,950	6,985
Benbrook Reservoir O&M	676,339	650,000	650,000	—
Stream Gauging Stations	178,200	195,000	315,000	120,000
<b>Total</b>	<b>\$ 9,479,559</b>	<b>\$ 12,685,836</b>	<b>\$ 13,791,320</b>	<b>\$ 1,105,484</b>

## System Improvements and Capital Equipment Expenditures

The Revenue Fund system improvements and capital equipment budget consists of shorter-term projects that enhance and rehabilitate the current system and the capital equipment needed to support the system.

Capital equipment increased for fiscal year 2025 primarily due to \$788 thousand in costs to replace aging network and server equipment and \$641 thousand to purchase 16 additional pickup trucks, which are needed to replace aging vehicles and equip new personnel.

The main increase in system study and design projects is the implementation of the new Enterprise Resource Planning/Human Resources Information System (ERP/HRIS), which will replace the current financial and human resource applications as well as other systems for more efficient processing and up-to-date data analysis. Implementation began in fiscal year 2024 and is scheduled to conclude in fiscal year 2025.

Pump and valve projects increased \$1.3 million primarily due to \$858 thousand in repairs needed to JB3 pump station and variable frequency drive updates and pump refurbishments needed on pumps at Benbrook and in the Wetlands. Additional improvements and restorations are also planned for the Richland Chambers embankment, roof repairs on multiple facilities, and repairs of retaining and breaker walls in various locations. Now that the Integrated Pipeline is online, the District can begin projects that had been postponed because they required taking portions of the existing pipeline offline for more extensive system improvements.

The water supply contract budget is a potential contract with the Trinity River Authority (TRA) to secure the rights to additional water supply.

Additional details are shown on the following page.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Capital Equipment*	\$ 801,446	\$ 938,000	\$ 2,150,000	\$ 1,212,000
System Study & Design Projects	1,540,366	3,546,429	3,825,970	279,541
Pump & Valve Projects	1,520,783	2,520,000	3,868,900	1,348,900
Construction & Repair Projects	9,867,203	2,972,500	3,460,375	487,875
Water Supply Contract	—	570,000	570,000	—
<b>Total</b>	<b>\$ 13,729,798</b>	<b>\$ 10,546,929</b>	<b>\$ 13,875,245</b>	<b>\$ 3,328,316</b>

\*The District considers machinery or equipment purchases of \$10 thousand or more capital equipment.

## System Improvements and Capital Equipment Details

<b><u>Capital Equipment</u></b>	<b><u>FY25 Budget Proposed</u></b>
Pickup Trucks (16)	641,000
Lifecycle Replacement Of Network Core Equipment	528,000
Heavy Duty Track Loader	425,000
Lifecycle Video Archiver Servers	260,000
Two-Way Radio Expansion	175,000
Miscellaneous Capital Equipment*	121,000
	<b>\$ 2,150,000</b>
<b><u>System Study &amp; Design Projects</u></b>	
ERP/HRIS Software Implementation	656,250
System Operating Permit Evaluation	500,000
SCADA Master Plan	300,000
Integrated Water Supply Plan	250,000
Eagle Mountain Spillway Communication Project	225,000
CEQUAL-W2 Modeling	215,345
CC Wetlands Collaboration with NTMWD Study	200,000
NTMWD/DWU Interconnection Optimization Study	200,000
Sulphur River Basin Study	150,000
UTA Research/Study Butterfly Value	150,000
Arc Flash Updates	150,000
Water Transmission Consultant Modeling	125,000
Richland Chambers & Cedar Creek Flood Control Modeling	125,000
GSI Implementation on TRWD Properties	105,000
Eagle Mountain Lake High Flow Operations Assessment	105,000
Miscellaneous System Study & Design Projects*	369,375
	<b>\$ 3,825,970</b>
<b><u>Pump &amp; Valve Projects</u></b>	
JB3 Pump Station Repairs	857,900
Variable Frequency Drive Upgrades	750,000
Pump Refurbishments	680,000
Control Valve Actuator Conversion at RC3L	450,000
Comprehensive Industrial Control System Upgrade at BB1/BB2	350,000
Fuel System Upgrades	330,000
Overhead Crane Replacement	216,000
Emmerson Vibration Unit Upgrade at RC2H	135,000
Horizontal Pump Rehab At RC3L	100,000
	<b>\$ 3,868,900</b>

**Revenue Fund**

	<b>FY25 Budget Proposed</b>
<b><u>Construction &amp; Repair Projects</u></b>	
Silt Removal at Shannon Wetlands	1,400,000
Richland Chambers Embankment PH1	500,000
Richland Chambers & Cedar Creek Roof Replacements	350,000
Breaker Wall Repair and Cedar Creek Facilities Maintenance	175,000
JB3 Driveway Repair	170,000
New Richland Chambers Water Quality Building	120,000
Richland Chambers Retaining Wall Repair	150,000
JB3 Cooling Tower Improvements	150,000
Cedar Creek Dam Relief Well Maintenance	100,000
Miscellaneous Construction & Repair Projects*	345,375
	<u>\$ 3,460,375</u>
<b>Water Supply Contract</b>	<b>\$ 570,000</b>
	<u><b>Total System Improvements &amp; Capital Equipment \$ 13,875,245</b></u>

\*All individual items listed under "Miscellaneous" are \$100 thousand or less.

## Watershed Protection & Water Quality Program Expenditures

TRWD is committed to providing the public it serves with a clean, plentiful water supply and being a good steward of our watersheds and the environment. The Water Conservation Program has enabled TRWD to defer capital costs as people use less water than initially projected. The program has also expanded services and participation has steadily grown year over year. The approved expenditure increase will allow the District to update the conservation strategic plan with help from a consultant as we engage and involve our customer cities through multiple public input meetings, while we continue to provide additional customer city classes, workshops and events, residential sprinkler system evaluations and landscape consultations, and outreach resources.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Water Conservation Program*	\$ 2,606,398	\$ 3,096,002	\$ 3,410,502	\$ 314,500
Watershed Protection	154,315	405,650	405,650	—
Water Quality Programs	299,699	437,960	416,961	(20,999)
Public Outreach & Events	72,701	84,843	130,429	45,586
<b>Total</b>	<b>\$ 3,133,111</b>	<b>\$ 4,024,455</b>	<b>\$ 4,363,542</b>	<b>\$ 339,087</b>

\* 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 Revenues and Expenditures:**

Program Area	FY24 Budgeted Expenditures	FY25 Budgeted Expenditures	FY25 Budgeted Contributions	TRWD Portion
"Water is Awesome" Campaign	\$ 2,035,002	\$ 2,035,002	\$ 1,166,668	\$ 868,334
Program Support (evaluations, watering advice, etc.)	570,500	885,000	20,000	865,000
School Education Program	313,000	313,000	—	313,000
Video and Promotional Items	88,500	88,500	—	88,500
Rain Barrel & Customer City Workshops	65,000	65,000	24,100	40,900
Regional Symposiums	24,000	24,000	19,000	5,000
Program Exhibits	—	—	—	—
<b>Total</b>	<b>\$ 3,096,002</b>	<b>\$ 3,410,502</b>	<b>\$ 1,229,768</b>	<b>\$ 2,180,734</b>

Water Conservation has successfully developed and managed effective outreach and education programs. Conservation is focused on customer city and community support to help build resilient and reliable long-term water supplies and advance the importance of water and related infrastructure. Water Conservation outreach efforts emphasize the importance of customer city support, adult education, youth education, reducing waste from sprinklers, direct connections with residential water users and regional coordination.

Dallas and NTMWD each contribute \$583 thousand per year to the regional “Water is Awesome” Campaign, which covers broadcast TV, radio, digital, and other forms of outreach. The \$285 thousand difference between their portions and TRWD’s covers local costs for specific advertising and promotions within our service area and includes billboards, local print ads, local cable ads, local radio ads, etc. Additional details regarding the budgeted contribution revenues are shown on page 30.



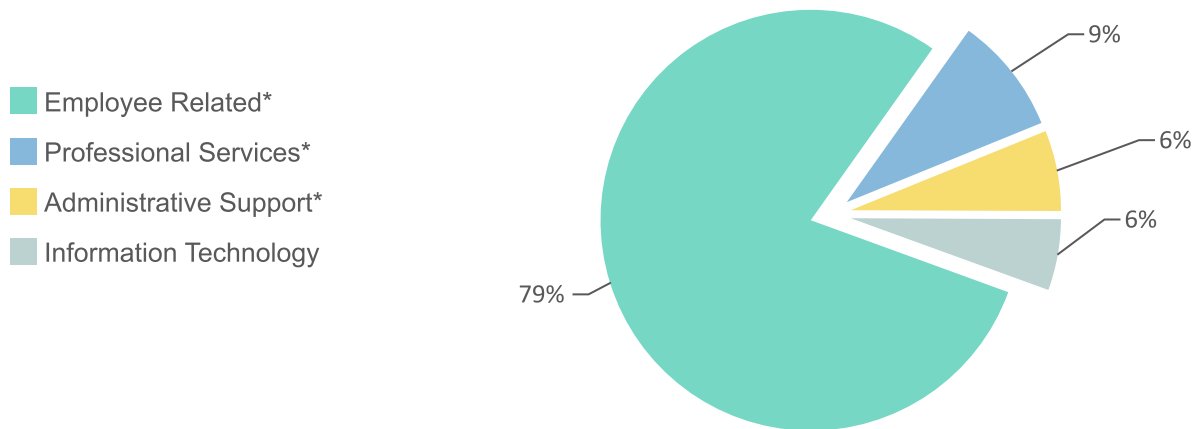
## Support Services Summary

Support services makes up 25% of the overall Revenue Fund budget and serves to support the District’s efforts in supplying water to customers. The largest portion of this cost is the District’s investment in its people, resulting in strong employee retention, low turnover rates, high employee engagement, and a stable culture. Additional details are given on the following pages.

	<b>FY23 Actuals</b>	<b>FY24 Budget Approved</b>	<b>FY25 Budget Proposed</b>	<b>Variance</b>
Employee Related*	\$ 28,128,990	\$ 33,801,466	\$ 36,350,953	\$ 2,549,487
Professional Services*	2,367,791	3,611,903	4,136,404	524,501
Administrative Support*	2,549,365	2,982,282	2,840,243	(142,039)
Information Technology	2,175,609	2,905,933	2,515,074	(390,860)
<b>Total Support Services</b>	<b>\$ 35,221,755</b>	<b>\$ 43,301,584</b>	<b>\$ 45,842,673</b>	<b>\$ 2,541,089</b>

\* Additional details on following pages.

FY25 Revenue Fund Support Services

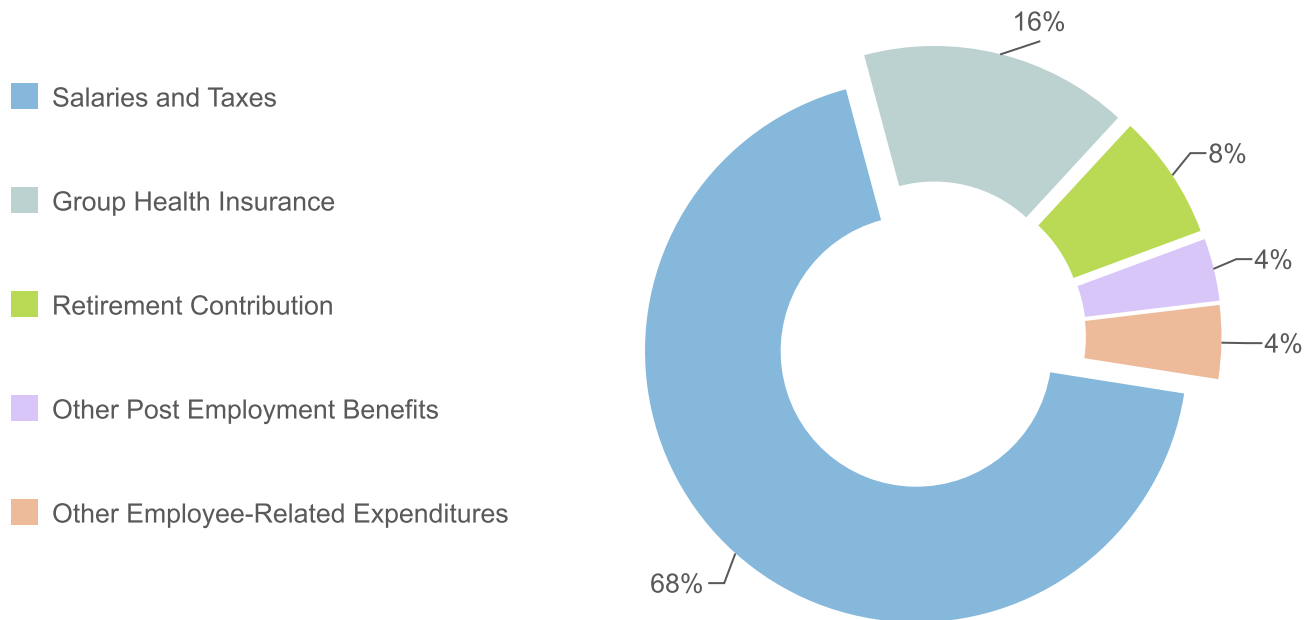


## Support Services Employee-Related Expenditures

TRWD’s strategic plan includes intentional investment in its people. The District plans to invest in a diverse workforce through training, a focus on safety, and the planning and support needed to live TRWD values. The overall increase in salaries and taxes is due mainly to additions to pipeline operations (9), infrastructure engineering (4), risk management (3) and some administrative positions, all of which are related to growth and aging infrastructure, and raises and promotions. This growth was anticipated and included in the 10-year rate model as a part of operating and maintenance expenditures. The District is self-insured for the employee group health plan, and since claims have been lower than budget for the past couple of years, no increase is budgeted for fiscal year 2025.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Salaries and Taxes	\$ 19,587,169	\$ 22,672,585	\$ 24,842,196	\$ 2,169,611
Group Health Insurance	3,975,506	5,828,647	5,828,647	—
Retirement Contribution	2,231,964	2,484,989	2,722,243	237,254
Other Post Employment Benefits	1,136,102	1,249,712	1,361,715	112,003
Other Employee-Related Expenditures	1,198,249	1,565,533	1,596,151	30,618
<b>Total</b>	<b>\$ 28,128,990</b>	<b>\$ 33,801,466</b>	<b>\$ 36,350,953</b>	<b>\$ 2,549,487</b>

FY25 Employee-Related Expenditures



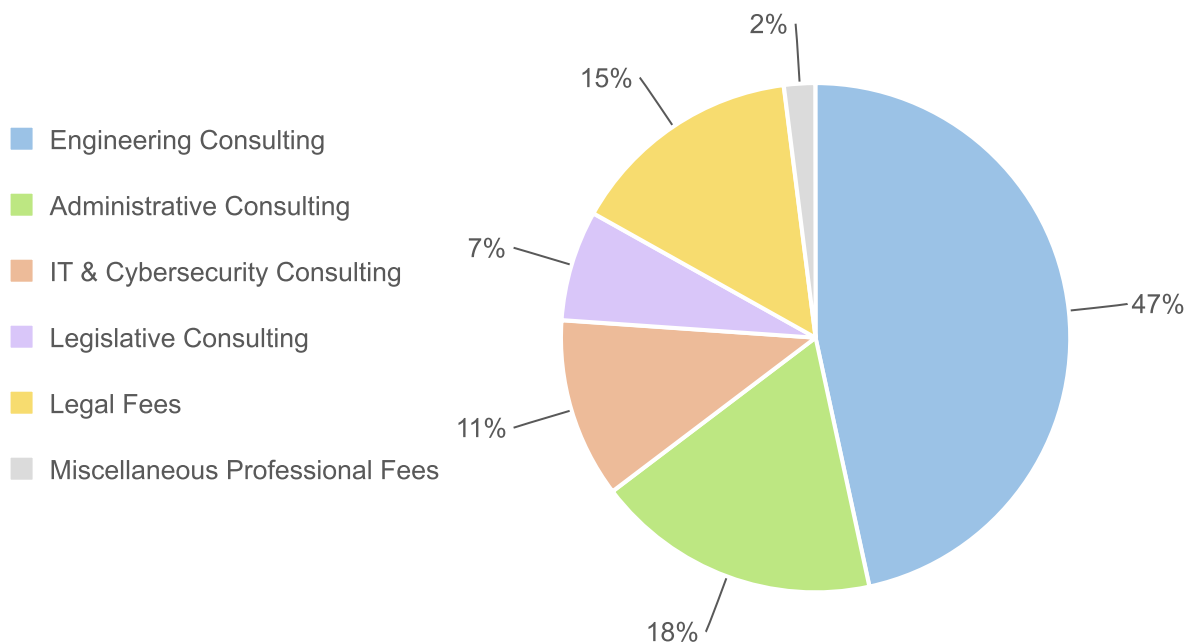


## Support Services Professional Services Expenditures

Professional services are provided by external vendors with specialized technical expertise to support District efforts. The largest category of professional services is engineering consulting, which increased primarily due to services related to nondestructive pipe testing, TCEQ water right amendment fees, water service policy considerations, and inspections and monitoring of the dams at Bridgeport, Cedar Creek, and Richland Chambers. Administrative consulting provides professional support for financial, human resource, and other administrative efforts.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Engineering Consulting	\$ 800,428	\$ 1,330,860	\$ 1,928,050	\$ 597,190
Administrative Consulting	281,310	706,446	747,994	41,548
IT & Cybersecurity Consulting	290,338	597,840	471,975	(125,865)
Legislative Consulting	532,753	291,300	290,250	(1,050)
Subtotal Consulting Fees	1,904,829	2,926,446	3,438,269	511,823
Legal Fees	428,004	576,500	615,750	39,250
Miscellaneous Professional Fees	34,958	108,957	82,385	(26,572)
<b>Total Professional Services</b>	<b>\$ 2,367,791</b>	<b>\$ 3,611,903</b>	<b>\$ 4,136,404</b>	<b>\$ 524,501</b>

FY25 Professional Services

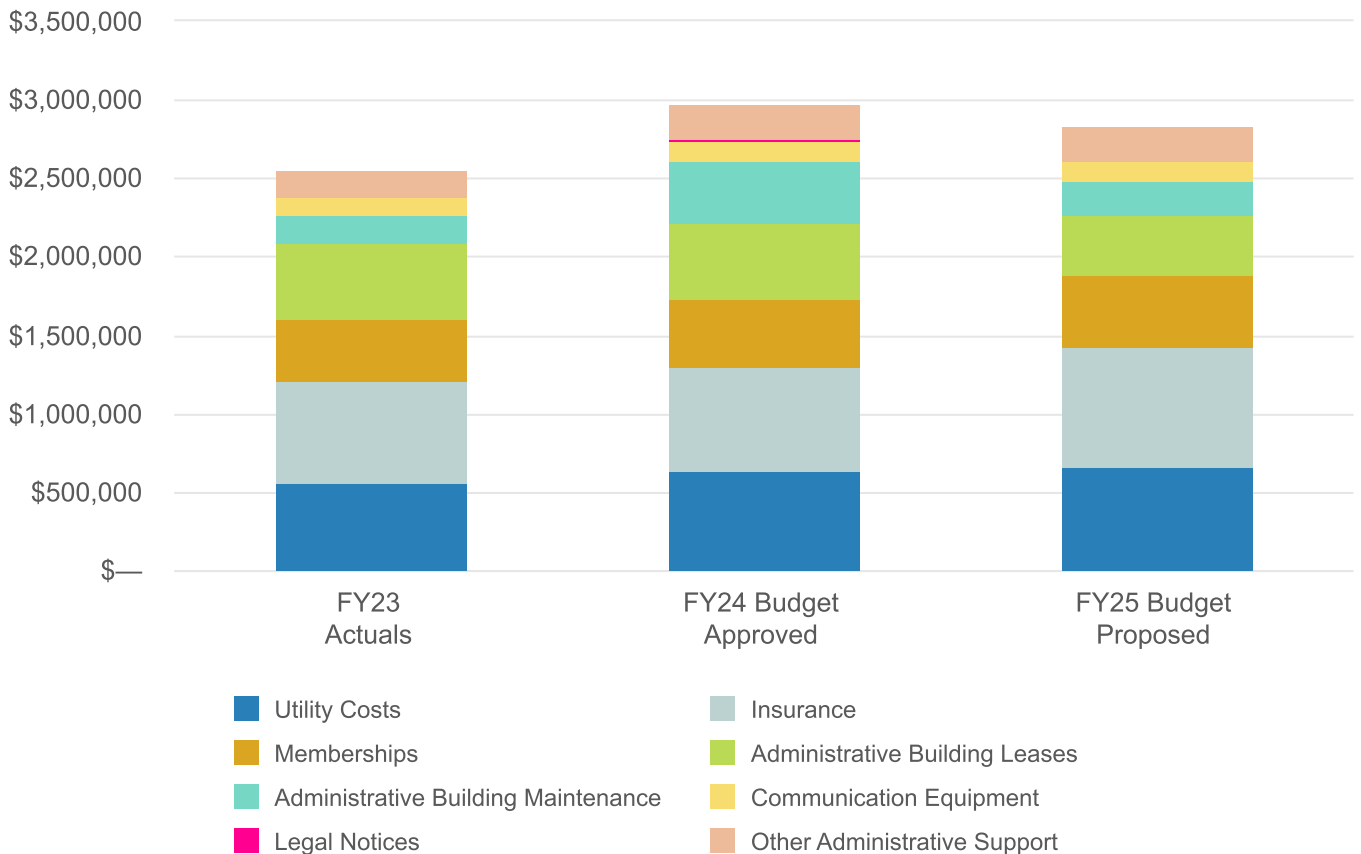


## Support Services Administrative Support Expenditures

Administrative support services consist of a variety of overhead expenditures that support the District’s water supply system as a whole. These categories tend to remain relatively stable from year to year. The greatest decrease for fiscal year 2025 is in building maintenance, due to the completion of the administrative building HVAC replacements in fiscal year 2024. Insurance costs have increased due to the District's need to protect additional capital assets.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Utility Costs	\$ 566,475	\$ 644,980	\$ 658,600	\$ 13,620
Insurance	641,201	653,850	771,527	117,677
Memberships	403,305	444,631	457,548	12,917
Administrative Building Leases	479,796	479,796	391,554	(88,242)
Administrative Building Maintenance	182,170	397,251	217,978	(179,273)
Communication Equipment	110,731	125,010	120,800	(4,210)
Legal Notices	9,907	8,450	2,075	(6,375)
Other Administrative Support	155,778	228,315	220,161	(8,154)
<b>Total \$</b>	<b>2,549,364</b>	<b>2,982,283</b>	<b>2,840,243</b>	<b>(142,040)</b>

Administrative Support Expenditures



# Revenue Fund: Revenues

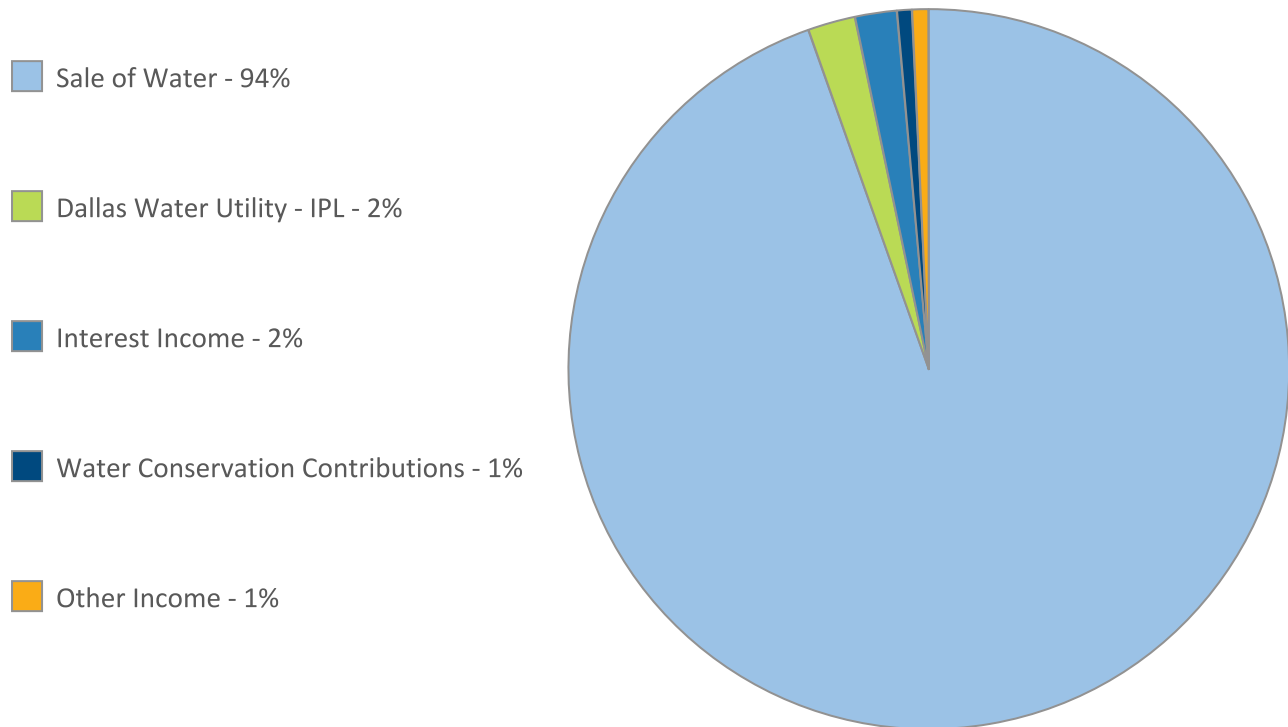
## Sources of Revenue Summary

The primary source and largest single component of income to the Revenue Fund is the sale of water, which makes up 94% of the total budgeted revenues for fiscal year 2025. Interest earned on investments, contributions to the water conservation program, and other income (leases, permit revenues, and other water sales) comprise approximately 4% of the budgeted revenues for fiscal year 2025. The remaining 2% consists of maintenance costs shared with Dallas Water Utilities on the Integrated Pipeline (IPL) project.

Sources	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %
Sale of Water*	\$ 145,806,936	\$ 164,091,374	\$ 176,490,960	\$ 12,399,586	7.56 %
Dallas Water Utility - IPL*	2,225,253	3,590,578	3,975,000	384,422	10.71 %
Interest Income*	3,718,278	1,600,000	3,500,000	1,900,000	118.75 %
Water Conservation	1,179,296	1,229,768	1,229,768	—	— %
Other Income	2,261,729	1,251,971	1,390,232	138,261	11.04 %
<b>Total Revenues</b>	<b>\$ 155,191,492</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>\$ 14,822,269</b>	<b>8.63 %</b>

\*Additional Details on the following pages

FY25 Budgeted Revenues



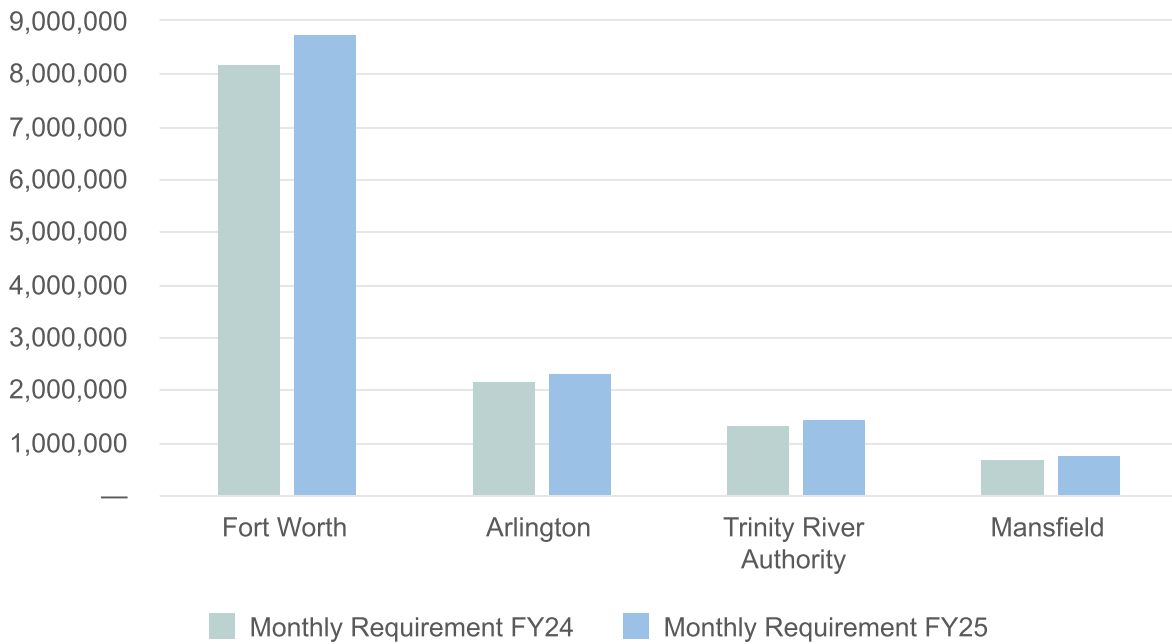
**Sources of Revenue**  
**Sale of Water**

**Customer Monthly Payments**

	Fort Worth	Arlington	Trinity River Authority	Mansfield
FY 2025 Estimated Usage (000's)	75,138,820	19,863,483	12,511,573	6,656,180
FY 2025 Rate per 1,000 Gallons	\$ 1.40014	\$ 1.40014	\$ 1.40014	\$ 1.40014
<b>FY25 Budgeted Revenue Requirement</b>	<b>\$ 105,205,126</b>	<b>\$ 27,811,725</b>	<b>\$ 17,517,997</b>	<b>\$ 9,319,607</b>
FY24 Budgeted Revenue Requirement	\$ 98,624,378	\$ 25,827,696	\$ 15,811,030	\$ 8,349,819

<b>Monthly Requirement FY25</b>	<b>\$ 8,767,094</b>	<b>\$ 2,317,644</b>	<b>\$ 1,459,833</b>	<b>\$ 776,634</b>
Monthly Requirement FY24	\$ 8,218,698	\$ 2,152,308	\$ 1,317,586	\$ 695,818

Budgeted Monthly Customer Payments



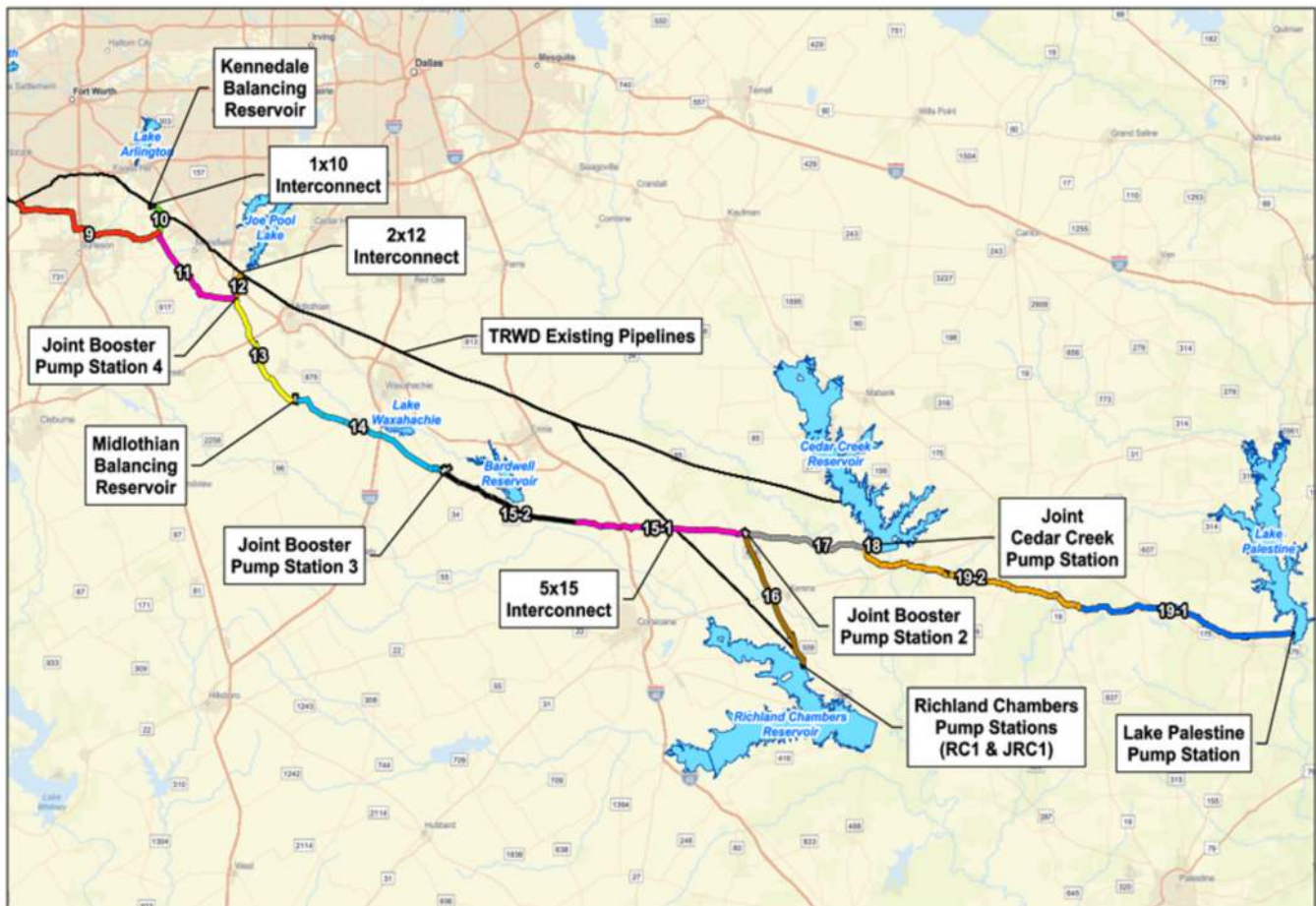
## Sources of Revenue Dallas Water Utility - Integrated Pipeline Project

The District and Dallas Water Utilities (DWU) share costs on certain portions of the Integrated Pipeline project. The costs shown below are added as revenues to the Revenue Fund budget to offset a portion of current operating and maintenance (O&M) and capital replacement costs.

Direct O&M costs are incurred specifically on joint or Dallas-only sections of the pipeline system. Direct labor hours are also billed directly to specific portions of the pipeline. Indirect O&M costs and Capital Replacement costs benefit the District water supply system as a whole and are allocated between the District and DWU based on each entity's applicable share of system asset value.

Indirect labor costs similarly are for departments and personnel that provide support to the water supply system overall, and therefore their personnel costs are split based on the system asset value.

	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance
Direct O&M Costs	\$ 236,816	\$ 488,601	\$ 450,000	\$ (38,601)
Direct O&M Labor	137,139	455,573	425,000	(30,573)
<b>Total Direct Operating Costs</b>	<b>373,955</b>	<b>944,174</b>	<b>875,000</b>	<b>(69,174)</b>
Indirect O&M Costs	942,995	1,274,032	1,500,000	225,968
Indirect O&M Labor	643,333	1,095,952	1,000,000	(95,952)
Capital Replacement Costs	264,917	276,420	600,000	323,580
<b>Total Indirect Operating Costs</b>	<b>\$ 1,851,245</b>	<b>\$ 2,646,404</b>	<b>\$ 3,100,000</b>	<b>\$ 453,596</b>
<b>Total DWU Budgeted Revenues</b>	<b>\$ 2,225,200</b>	<b>\$ 3,590,578</b>	<b>\$ 3,975,000</b>	<b>\$ 384,422</b>

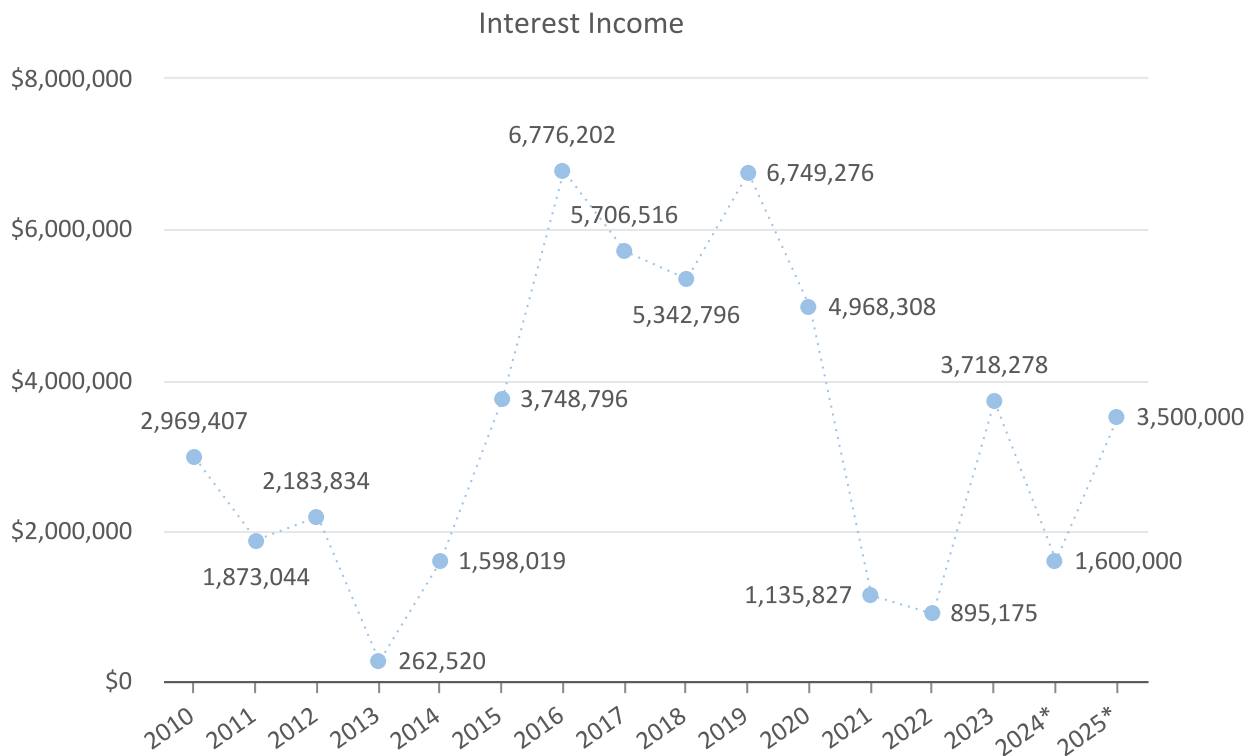


## Sources of Revenue Interest Income

The Revenue Fund budgeted interest income includes interest generated from the operating Revenue Fund as well as the Bond Reserve Fund and 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, which can be invested in longer-term investments.

Interest income is expected to increase compared to the fiscal year 2024 budget due to a rising interest rate environment. To be conservative, the District is assuming a 2.5% interest rate for short-term investments in fiscal year 2025. The District invests in US government and agency fixed income securities as well as investments in Local Government Investment Pools.

The graph below illustrates the actual interest earned on investments for the past 10 years as well as budgeted interest income for fiscal years 2023 and 2024.



\*Budgeted Interest Income

## Sources of Revenue Water Conservation Contributions

Contribution revenues help off-set the District’s expenses for the water conservation Program. In fiscal year 2024, these revenues will account for \$1.23 million in income for the Revenue Fund.

The five-year memorandum of understanding (MOU) for the regional Public Outreach & Education campaign with the City of Dallas (Dallas) and North Texas Municipal Water District (NTMWD) was renewed in fiscal year 2024 for an additional 5 years. Both Dallas and NTMWD agreed to renew the Public Outreach & Education campaign, also known as “Water is Awesome,” at the current budget of \$583,334 each.

The new MOU with Dallas also contains an agreement to contribute \$20,000 to Program Support for the Weekly Watering Advice service. Additionally, Dallas, NTMWD and Upper Trinity Regional Water District each contribute to the Regional Water Conservation Symposium. The District will also receive \$24,000 from participant cost-share for Tarrant County Master Gardener Association rain barrel workshops with customer cities.

Water Conservation Program Revenues	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed
Public Outreach & Education - City of Dallas	\$ 576,875	\$ 583,334	\$ 583,334
Public Outreach & Education - NTMWD	576,875	583,334	583,334
Program Support (evals, watering advice, etc.)	5,543	20,000	20,000
Rain Barrel & Customer City Workshops	8,136	24,100	24,100
Regional Symposiums - City of Dallas	4,141	5,000	5,000
Regional Symposiums - NTMWD	3,741	5,000	5,000
Regional Symposiums - UTWD	3,047	5,000	5,000
Regional Symposiums Registration Fees	2,906	4,000	4,000
<b>Total Water Conservation Program Revenues</b>	<b>\$ 1,181,263</b>	<b>\$ 1,229,768</b>	<b>\$ 1,229,768</b>





Revenue Fund FY25 Budget

Expenditures	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %	Notes
<b>Debt Service</b>	\$ 73,355,233	\$ 83,204,886	\$ 89,713,179	\$ 6,508,293	7.82 %	<b>1</b>
<b>Pumping Power</b>	20,272,037	18,000,000	19,000,000	1,000,000	5.56 %	<b>2</b>
<b>Maintenance</b>						
Pipeline & Pump Station	\$ 3,896,414	\$ 5,335,000	\$ 5,490,500	\$ 155,500	2.91 %	
Pipeline Chemicals	1,354,880	2,210,000	1,830,000	(380,000)	(17.19)%	
Facilities & Grounds Maintenance	1,651,661	2,352,605	3,293,430	940,825	39.99 %	
Equipment & Fleet	895,465	978,266	1,240,440	262,174	26.80 %	
Maintenance Support	826,600	964,965	971,950	6,985	0.72 %	
Benbrook Reservoir O&M	676,339	650,000	650,000	—	— %	
Stream Gauging Stations	178,200	195,000	315,000	120,000	61.54 %	
Total Maintenance	9,479,559	12,685,836	13,791,320	1,105,484	8.71 %	<b>3</b>
<b>System Improvements &amp; Capital Equipment</b>	\$ 13,729,797	\$ 10,546,929	\$ 13,875,245	\$ 3,328,316	31.56 %	<b>4</b>
<b>Water Quality Programs &amp; Watershed Protection</b>						
Water Conservation Program	\$ 2,606,398	\$ 3,096,002	\$ 3,410,502	\$ 314,500	10.16 %	<b>5</b>
Watershed Protection	154,315	405,650	405,650	—	— %	
Water Quality Programs	299,699	437,960	416,961	(20,999)	(4.79)%	
Public Outreach & Events	72,701	84,843	130,429	45,586	53.73 %	
Total Watershed Protection & Environmental Stewardship	3,133,111	4,024,455	4,363,542	339,087	8.43 %	
<b>Support Services</b>						
Employee Related	\$ 28,128,990	\$ 33,801,466	\$ 36,350,953	\$ 2,549,487	7.54 %	<b>6</b>
Professional Services	2,367,791	3,611,903	4,136,404	524,501	14.52 %	
Administrative Support	2,549,365	2,982,282	2,840,243	(142,039)	(4.76)%	
Information Technology	2,175,609	2,905,933	2,515,074	(390,860)	(13.45)%	
Total Support Services	35,221,755	43,301,584	45,842,673	2,541,089	5.87 %	
<b>Total Expenditures</b>	<b>\$ 155,191,492</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>\$ 14,822,269</b>	<b>8.63 %</b>	

Revenues	FY23 Actuals	FY24 Budget Approved	FY25 Budget Proposed	Variance	Change %
Sale of Water	\$ 145,806,936	\$ 164,091,374	\$ 176,490,960	\$ 12,399,586	7.56 %
Dallas Water Utility - IPL	2,225,253	3,590,578	3,975,000	384,422	10.71 %
Interest Income	3,718,278	1,600,000	3,500,000	1,900,000	118.75 %
Water Conservation Contributions	1,179,296	1,229,768	1,229,768	—	— %
Other Income	2,261,729	1,251,971	1,390,232	138,261	11.04 %
<b>Total Revenues</b>	<b>\$ 155,191,492</b>	<b>\$ 171,763,691</b>	<b>\$ 186,585,960</b>	<b>\$ 14,822,269</b>	<b>8.63 %</b>

## Variance Explanations

### 1. Debt Service

The \$6.5 million increase in debt service is due to the \$100 million 2024 bond issuance and the anticipated \$150 million 2025 bond issuance.

### 2. Pumping Power

The District is recommending a \$1.0 million increase to the pumping power budget due to a significant increase in the price of electricity.

### 3. Total Maintenance

The increase is mostly due to an increase in the cost of mowing and maintaining the pipeline right of way both due to higher pricing as well as a larger area to maintain now that the entire core section of the IPL is being maintained, reservoir release warning system upgrades, and HVAC replacements at multiple pipeline facilities.

### 4. System Improvements & Capital Equipment

Capital equipment increased for fiscal year 2025 primarily due to \$788 thousand in costs to replace network and server equipment and \$641 thousand to purchase 16 additional pickup trucks, which are primarily needed to equip new personnel. Pump and valve projects increased primarily due to repairs needed to JB3 pump station and variable frequency drive updates and pump refurbishments needed on pumps at Benbrook and in the Wetlands.

### 5. Water Conservation Program Expenditures

The \$300 thousand increase will allow the District to update the conservation strategic plan with help from a consultant as we engage and involve our customer cities through multiple public input meetings and other engagement opportunities.

### 6. Employee-Related

The overall increase in salaries and taxes is due mainly to additions to pipeline operations (9), infrastructure engineering (4), risk management (3) and some administrative positions, all of which are related to growth and aging infrastructure, and raises and promotions.

### 7. Interest Income

Interest income is expected to increase compared to the fiscal year 2024 budget due to a rising interest rate environment. To be conservative, the District is assuming a 2.5% interest rate for short-term investments in fiscal year 2025.

**TARRANT REGIONAL WATER DISTRICT**

**AGENDA ITEM 8**

**DATE:** September 17, 2024

**SUBJECT:** Consider Approval of Consent Agenda

**RECOMMENDATION:**

Management recommends approval of the Consent Agenda.

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**Item:** Consider Approval of Joint-Funding Agreement with U.S. Geological Survey for Gage Network Support Services

**Vendor:** U.S. Geological Survey

**Amount:** Not-to-exceed \$460,790  
Fiscal Year 2025 General Fund; Fiscal Year 2025 Revenue Fund

**Reviewed by:** Construction and Operations Committee

This agreement will fund stream gaging services provided by the U.S. Geological Survey (USGS) from October 1, 2024, through September 30, 2025. District staff regularly makes decisions related to flood operations, water supply, and water quality based on data collected and published by the USGS. In addition, this data is utilized by other Trinity Basin partners for flood awareness, emergency evacuations, and water supply assessment, among other things.

If approved and in addition to annual operation and maintenance of the existing stream gages in the agreement, a new streamflow gage on the West Fork Trinity River at the eastern-most Northside Drive bridge will be installed. This gage will replace the gage located at Nutt Dam once Central City construction is underway. This agreement will also add a rain gage to the Cedar Creek watershed, which currently has one publicly available recording gage.

The agreement has a total cost of \$494,540. The USGS contribution is \$33,750 (7%). The District is responsible for the remaining \$460,790 for services provided during the October 1, 2024 through September 30, 2025 period.

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**Item:** Consider Approval of Capital Expenditures

**Vendor:** Caldwell Chevrolet, Silsbee Ford, Corsicana Welding, Kirby-Smith Machinery, Holt Caterpillar, Bane Machinery

**Amount:** \$1,594,377.28

**Reviewed by:** Construction and Operations Committee

(1) Caldwell Chevrolet

- Seven (7) new fleet vehicles
- Total expenditure amount: \$464,962.00

(2) Silsbee Ford

- Five (5) new fleet vehicles
- Total expenditure amount: \$390,176.60

(3) Corsicana Welding

- One (1) 450-amp Welder
- Total expenditure amount: \$26,824.44

(4) Kirby-Smith Machinery

- One (1) Portable 185CFM Compressor
- Total expenditure amount: \$31,929.00

(5) Holt Caterpillar

- One (1) Heavy Duty Track Loader
- Total expenditure amount: \$420,936.19

(6) Holt Caterpillar

- One (1) Heavy Duty Compact Loader
- Total expenditure amount: \$117,811.71

(7) Bane Machinery

- One (1) Heavy Duty Mini Excavator
- Total expenditure amount: \$141,737.34

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**Item:** Consider Approval of Contract for Annual Stand-by Generator Maintenance

**Vendor:** kW Power Services, LLC

**Amount:** Year 1: \$81,327; Total Potential Spend: \$406,635  
Fiscal Year 2025 General Fund; Fiscal Year 2025 Revenue Fund

**Reviewed by:** Construction and Operations Committee

Request for Proposals were solicited per statute (Texas Local Government Code Chapter 252) and 2 proposals were received. The evaluation team determined that kW Power Services, LLC is one of two vendors that will provide the best value to the District. This contract is for the annual stand-by generator maintenance. This contract is for one year (1) period with the option to renew for up to four (4) additional one (1) year periods.

kW Power Services, LLC is a prime and will self-perform its portion of the project, resulting in 0% diverse participation.

All statutory bidding requirements have been satisfied.

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**Item:**            **Contract for Labor Services**

**Vendor:**        Presbyterian Night Shelter/UpSpire

**Amount:**       \$559,000  
Fiscal Year 2025 General Fund; Fiscal Year 2025 Revenue Fund

**Reviewed by:** Construction and Operations Committee

The District solicited proposals from temporary contract labor service agencies to provide light industrial personnel on an as-needed basis to perform general labor duties in support of Fort Worth and Eagle Mountain Operations Departments.

The contract labor duties include picking up litter, brush and weed removal, unloading trucks, moving furniture and other similar tasks involving manual labor as required by the District.

The Request for Proposal was advertised per statute and three compliant proposals were received in 2022. Presbyterian Night Shelter/UpSpire submitted the highest evaluated and best proposal.

The contract commenced upon issuance of the Notice to Proceed and terminated on 9/30/2023 with an option to renew for four (4) additional one-year periods with acceptable performance. This will be the second renewal.

---

**Item:**            **Contract for Grounds Maintenance**

**Vendor:**        Whitmore and Sons

**Amount:**       Total for all locations: \$155,012  
Fiscal Year 2025 General Fund; Fiscal Year 2025 Revenue Fund

**Reviewed by:** Construction and Operations Committee

Grounds maintenance for District facilities at Eagle Mountain Park, Twin Points Park, and Fort Worth Floodway Trailheads expenditure amount: \$57,457.

Grounds maintenance for District facilities at the following locations: Law Enforcement Office/Compound and Fort Worth Operations Office/Compound expenditure amount: \$70,649.

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 expenditure amount: \$26,906.

The contract commenced upon issuance of Notice to Proceed and terminated on 9/30/2023 with an option to renew for four (4) additional one-year periods with acceptable performance. This will be the second renewal.

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**Item:**                **Contract for Dumpster Services**

**Vendor:**            Republic, 3-P Trash Services, Frontier, Waste Connections

**Amount:**           Not to exceed \$185,500  
Fiscal Year 2025 General Fund; Fiscal Year 2025 Revenue Fund

**Reviewed by:** Construction and Operations Committee

The District requests for quotes from waste management companies were solicited in support of numerous District locations. Each unit is to be serviced as needed and billed on a monthly cycle.

Multiple vendors were selected based on location, serviceability, and cost.

The contract(s) commenced upon issuance of Notice to Proceed and terminates on 9/30/2024 with an option to renew for four (4) additional one-year periods with acceptable performance. This will be the first renewal,



# United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
Oklahoma-Texas Water Science Center  
1505 Ferguson Lane  
Austin, TX 78754

July 18, 2024

Mr. Craig Ottman  
Tarrant Regional Water District  
800 East Northside Drive  
Fort Worth, TX 76102

Dear Mr. Ottman:

Enclosed is our signed standard joint-funding agreement 25SJJFATX062000 between the U.S. Geological Survey Oklahoma-Texas Water Science Center and Tarrant Regional Water District for negotiated deliverables (see attached), during the period October 1, 2024 through September 30, 2025 in the amount of \$460,790 from your agency. U.S. Geological Survey contributions for this agreement are \$33,750 for a combined total of \$494,540. Please sign and return one fully-executed original to Kandis Becher at [GS-W-OT\\_OTFM@usgs.gov](mailto:GS-W-OT_OTFM@usgs.gov).

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **September 15, 2024**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact Marsha Gipson at (682) 444-6392 or email [mgipson@usgs.gov](mailto:mgipson@usgs.gov) to make alternative arrangements.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Kandis Becher at phone number (682) 316-5051 or [kkbecher@usgs.gov](mailto:kkbecher@usgs.gov).

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

*Meghan Roussel*

Meghan Roussel  
Acting Director

Enclosure  
25SJJFATX062000

**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 #: 25SJJFATX062000  
Project #: SJ009ME  
TIN #: 75-6002584**

**Fixed Cost Agreement YES[ X ] NO[ ]**

THIS AGREEMENT is entered into as of the October 1, 2024, 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 for negotiated deliverables (see attached), 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) \$33,750 by the party of the first part during the period October 1, 2024 to September 30, 2025
- (b) \$460,790 by the party of the second part during the period October 1, 2024 to September 30, 2025
- (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/office-of-science-quality-and-integrity/fundamental-science-practices>).



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: Marsha Gipson  
Branch Chief - North Texas  
Address: 501 W. Felix Street Bldg 24  
Fort Worth, TX 76115  
Telephone: (682) 444-6392  
Fax: (682) 316-5022  
Email: mgipson@usgs.gov

Customer Technical Point of Contact

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

U.S. Geological Survey  
United States  
Department of Interior

Tarrant Regional Water District

By MEGHAN ROUSSEL <sup>Signature</sup>  
Digitally signed by  
MEGHAN ROUSSEL  
Date: 2024.07.18  
19:10:33 -05'00' <sup>Date:</sup>

Name: Meghan Roussel  
Title: Acting Director

Signatures

By \_\_\_\_\_ Date: \_\_\_\_\_

Name:  
Title:

By \_\_\_\_\_ Date: \_\_\_\_\_

Name:  
Title:

By \_\_\_\_\_ Date: \_\_\_\_\_

Name:  
Title:

**Tarrant Regional Water District  
25SJJFATX062000**

STATION NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	TRWD FUNDS	TOTAL GROSS COST
<b>001: SURFACE WATER PROGRAM</b>							
08042600	West Fork Trinity River at Hwy 281 nr Windthorst, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,800	\$16,800
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$18,300</b>	<b>\$18,300</b>
08042800	W. Fork Trinity River near Jacksboro, TX						
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	\$0
	Funded by Federal Priority Streamgages						
	Rain Gage	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$1,500</b>	<b>\$1,500</b>
08042820	Lost Creek Reservoir near Jacksboro, TX						
	Reservoir Elevation	RES-E	1	1.00	\$0	\$7,000	\$7,000
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$7,000</b>	<b>\$7,000</b>
08042950	Big Ck nr Chico, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,800	\$16,800
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$18,300</b>	<b>\$18,300</b>
08043000	Bridgeport Reservoir above Bridgeport, TX						
	Reservoir Contents	RES-C	1	1.05	\$0	\$8,925	\$8,925
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$10,425</b>	<b>\$10,425</b>
08043950	Big Sandy Creek near Bridgeport, TX						
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	\$0
	Funded by Federal Priority Streamgages						
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$1,500</b>	<b>\$1,500</b>
08044500	W. Fork Trinity River near Boyd, TX						
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	\$0
	Funded by Federal Priority Streamgages						
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$1,500</b>	<b>\$1,500</b>
08044800	Walnut Creek at Reno, TX						
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$11,100	\$16,800
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$5,700</b>	<b>\$12,600</b>	<b>\$18,300</b>
08045000	Eagle Mountain Reservoir above Fort Worth, TX						
	Reservoir Contents	RES-C	1	1.05	\$0	\$8,925	\$8,925
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$10,425</b>	<b>\$10,425</b>

08045400	Lake Worth above Fort Worth, TX							
	Reservoir Contents	RES-C	1	1.05	\$0	\$8,925	\$8,925	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500	
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$10,425</b>	<b>\$10,425</b>	
08045550	W. Fork Trinity River at White Settlement, TX							
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$11,100	\$16,800	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500	
			<b>Site Totals:</b>		<b>\$5,700</b>	<b>\$12,600</b>	<b>\$18,300</b>	
08045800	Lake Weatherford near Weatherford, TX							
	Reservoir Elevation	RES-E	1	1.00	\$0	\$7,000	\$7,000	
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$7,000</b>	<b>\$7,000</b>	
08045995	Clear Fork Trinity River at Kelly Road near Aledo, TX							
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$11,100	\$16,800	
			<b>Site Totals:</b>		<b>\$5,700</b>	<b>\$11,100</b>	<b>\$16,800</b>	
08047000	Clear Fork Trinity River near Benbrook, TX							
	Full Range Streamflow Station	QCONT	1	1.20	\$0	\$20,160	\$20,160	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500	
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$21,660</b>	<b>\$21,660</b>	
08047050	Mary's Creek at Benbrook, TX							
	Full Range Streamflow Station	QCONT	1	1.00	\$5,700	\$11,100	\$16,800	
			<b>Site Totals:</b>		<b>\$5,700</b>	<b>\$11,100</b>	<b>\$16,800</b>	
08047500	Clear Fork Trinity River at Fort Worth, TX							
	Funded by Federal Priority Streamgages	QCONT	0	1.00	\$0	\$0	\$0	
	Site funded by NSIP							
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
08048000	W. Fork Trinity River at Fort Worth, TX							
	Funded by Federal Priority Streamgages	QCONT	0	1.00	\$0	\$0	\$0	
	Weather Station, Operation & Maintenance	WSTAT	1	1.00	\$0	\$5,000	\$5,000	
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$5,000</b>	<b>\$5,000</b>	
08048543	W. Fork Trinity River at Beach St. Fort Worth, TX							
	Full Range Streamflow Station	QCONT	0	1.00	\$0	\$0	\$0	
	Site funded by Trinity River Compact							
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500	
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$1,500</b>	<b>\$1,500</b>	
08048970	Village Ck at Everman, TX							
	Full Range Streamflow Station	QCONT	1	1.00	\$5,250	\$11,550	\$16,800	
			<b>Site Totals:</b>		<b>\$5,250</b>	<b>\$11,550</b>	<b>\$16,800</b>	
08049200	Lake Arlington at Arlington, TX							
	Reservoir Elevation	RES-E	1	1.20	\$0	\$8,400	\$8,400	
	Rain Gage Station	RSTAD	1	1.00	\$0	\$1,500	\$1,500	
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$9,900</b>	<b>\$9,900</b>	

08062575	Trinity River at Dosser Full Range Streamflow Station	QCONT	0	1.00	\$0	\$16,800	\$16,800
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$16,800</b>	<b>\$16,800</b>
08062700	Trinity River at Trinidad, TX Full Range Streamflow Station Funded by Federal Priority Streamgages	QCONT	0	1.00	\$0	\$0	\$0
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
08062800	Cedar Creek nr Kemp, TX Full Range Streamflow Station Funded by Federal Priority Streamgages	QCONT	0	1.00	\$0	\$0	\$0
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
08062895	Kings Creek at H 34 nr Kaufman, TX Full Range Streamflow Station Rain gage Station	QCONT	1	1.1	\$5,700	\$12,780	\$18,480
		INSTALL	1	1	\$0	\$4,000	\$4,000
		RSTAD	1	1	\$0	\$750	\$750
		<b>Site Totals:</b>			<b>\$5,700</b>	<b>\$17,530</b>	<b>\$23,230</b>
08063010	Cedar Creek Reservoir near Trinidad, TX Reservoir Contents Rain Gage Station Wind Speed and Direction	RES-C	1	1.05	\$0	\$8,925	\$8,925
		RSTAD	1	1.00	\$0	\$1,500	\$1,500
		WIND	1	1.00	\$0	\$1,500	\$1,500
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$11,925</b>	<b>\$11,925</b>
08063100	Richland Creek near Dawson, TX Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,800	\$16,800
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$16,800</b>	<b>\$16,800</b>
08063460	Richland Creek at CR 0030, TX Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,800	\$16,800
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$16,800</b>	<b>\$16,800</b>
08063600	Lake Waxahachie near Waxahachie Reservoir Elevation	RES-E	1	1.00	\$0	\$7,000	\$7,000
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$7,000</b>	<b>\$7,000</b>
08063800	Waxahacie Creek near Bardwell, TX Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,800	\$16,800
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$16,800</b>	<b>\$16,800</b>
08064510	Halbert Lake near Corsicana, TX Reservoir Elevation	RES-E	1	1.00	\$0	\$7,000	\$7,000
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$7,000</b>	<b>\$7,000</b>
08064550	Richland-Chambers Reservoir near Kerens, TX Reservoir Contents Rain Gage Station Wind Speed and Direction	RES-C	1	1.00	\$0	\$8,500	\$8,500
		RSTAD	1	1.00	\$0	\$1,500	\$1,500
		WIND	1	1.00	\$0	\$1,500	\$1,500
		<b>Site Totals:</b>			<b>\$0</b>	<b>\$11,500</b>	<b>\$11,500</b>

08064570	Trinity Rv at Hwy 287 nr Cayuga, TX Full Range Streamflow Station	QCONT	1	1.00	\$0	\$16,800	\$16,800
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$16,800</b>	<b>\$16,800</b>
<b>**TBD**</b>	Install gage at W Fork Trinity at E Northside Dr Install	INSTALL	1	1.00	\$0	\$49,000	\$49,000
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$49,000</b>	<b>\$49,000</b>
	Streamflow Measurements Below Benbrook Waterworks Streamflow Measurements Below the Water Supply Outlets	QMEAS	1	1.00	\$0	\$10,250	\$10,250
			<b>Site Totals:</b>		<b>\$0</b>	<b>\$10,250</b>	<b>\$10,250</b>
	<b>SURFACE WATER TOTAL</b>				<b>\$33,750</b>	<b>\$381,590</b>	<b>\$415,340</b>

**003: WATER QUALITY PROGRAM**

8047050

Mary's Creek at Benbrook, TX O&M of 5-parameter Water-Quality Monitor T, SC, DO, pH, Turb.	WQMON5	1	1	\$0	\$39,600	\$39,600
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08048000

W. Fork Trinity River at Fort Worth, TX O&M of 5-parameter Water-Quality Monitor T, SC, DO, pH, Turb.	WQMON5	1	1	\$0	\$39,600	\$39,600
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**WATER QUALITY TOTAL** **\$0** **\$ 79,200** **\$79,200**

PROJECT	USGS FUNDS	TRWD FUNDS	TOTAL COST
<b>001: SURFACE WATER</b>	\$33,750	\$381,590	\$415,340
<b>003: WATER QUALITY</b>	\$0	\$ 79,200	\$79,200
<b>GRAND TOTAL</b>	<b>\$33,750</b>	<b>\$460,790</b>	<b>\$494,540</b>



**List of Submitting Firms**

**RFP No. 24-164  
Annual Stand-By Generator Maintenance Contract**

<b>Due Date and Time:</b>	August 27, 2024, at 02:00 p.m. CT
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<b>Name of Firm</b>
kW Power Services, LLC
AMP GenPower Solutions



Evaluation Sheet

**24-164 Annual Stand-By Generator Maintenance Contract**

Technical Quality Criteria	Total Points Available	KW Power Services	AMPGEN Power Solutions
Price Proposal	25.00	25.00	20.00
	Price	\$81,327.00	\$108,040.00
Range of Experience with various brands	25.00	25.00	20.00
Qualifications of Key Personnel	25.00	25.00	20.00
Approach to accomplish required services, ability to perform the required services within the project period	15.00	15.00	15.00
References	10.00	10.00	5.00
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>80.00</b>

## TARRANT REGIONAL WATER DISTRICT

### AGENDA ITEM 9

**DATE:** September 17, 2024

**SUBJECT:** Consider Approval of Contract with Freese and Nichols, Inc. for Design of Section 1D & 1E Pipelines and Arlington Outlet Improvements

**FUNDING:** Bond Fund

#### **RECOMMENDATION:**

Management recommends approval of a contract **in an amount not-to-exceed \$5,239,279** with Freese and Nichols, Inc. (FNI) for engineering design services for the Section 1D & 1E Pipelines and Arlington Outlet Improvements. These engineering services include preliminary design investigations, final design plans and specifications, and procurement phase services.

#### **DISCUSSION:**

The Section 1D and 1E Pipelines and Arlington Outlet Improvements Project includes three distinct, but interrelated subprojects that are intended to enhance the capacity, reliability, and redundancy of the District's water transmission system.

Section 1D is a proposed three-mile, 108-inch diameter pipeline that will connect to the existing 108-in Line J pipeline and parallel the existing Richland Chambers and Cedar Creek pipelines to the Rolling Hills Water Treatment Plant. It will include connections to existing lines, as well as crossover and mainline valves.

Section 1E is a proposed 3,000-foot, 108-inch pipeline that will connect to the proposed Section 1D pipeline and to the Rolling Hills Booster Pump Station suction header.

Both pipelines will increase flow capacity between the Kennedale Balancing Reservoir and Fort Worth's Rolling Hills Water Treatment Plant and the District's Rolling Hills Booster Pump Station. These new pipelines will also relieve pressure class constraints of the existing pipelines which will enable the Benbrook Lake Pump Station to pump to customers east of the Kennedale Balancing Reservoir. The 1E and 1D pipelines will also provide additional operational flexibility to move water during alternative operating scenarios often required by routine pipeline maintenance and unexpected events.

Improvements at the Arlington Outlet are needed to replace at least five valves that are near the end of their useful life. The valves leak excessively and have mechanical malfunctions. The new valves and adjoining supply lines between the main pipelines and the Arlington Outlet will also be upsized to increase discharge capacity.



Request for Statement of Qualifications was solicited per statute (Texas Government Code Chapter 2254), and ten submittals were received. All ten submittals included in the attached list of submitting firms were reviewed and evaluated, and the top four scoring firms were interviewed in person. FNI was deemed to be the most qualified firm for this project.

FNI is a prime, non-certified diverse business. It has subcontracted portions of the contract resulting in an overall Diverse Business, participation commitment of 20%.

These engineering services will take place through the next two and half years with construction planned to begin in 2027.

This item was reviewed by the Construction and Operations Committee on September 12, 2024.

**Submitted By:**

Jason Gehrig, P.E.  
Infrastructure Engineering Director



## List of Submitting Firms

**RFSOQ No. 24-087**

**Engineering Services for Cedar Creek Section 2 Replacement, Cedar Creek Section 4 Replacement, Section 1D & 1E Pipelines and Arlington Outlet Improvements**

<b>Due Date and Time:</b>	March 26, 2024, at 2:00 p.m. CT
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<b>Name of Firm</b>
Aurora Technical Services, LLC
Black & Veatch
Freese & Nichols
Garver
Hazen
HDR
Jacobs Engineering Group
Kennedy Jenks
Lockwood, Andrews, & Newman, Inc
STV Infrastructure

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**LIST OF SUBMITTING FIRMS**

**RFSOQ 24-087 ENGINEERING SERVICES FOR CEDAR CREEK SECTION 2 REPLACEMENT, CEDAR CREEK SECTION 4 REPLACEMENT, SECTION 1D & 1E PIPELINES AND ARLINGTON OUTLET IMPROVEMENTS**

## ATTACHMENT SC

**SCOPE OF SERVICES AND RESPONSIBILITIES OF OWNER**ARTICLE I

**PROJECT DESCRIPTION:** The Tarrant Regional Water District (Owner) is proceeding with design and construction of the Section 1D Pipeline between the Lake Arlington Outlet (AO) Structure and Rolling Hills Water Treatment Plant, Section 1E Pipeline between the northeast corner of the RHWTP and Rolling Hills Booster Pump Station (RHBPS) and replacement of the yard pipe and valves at the AO facility. The Section 1D Pipeline is approximately 16,700 linear feet of 108" pipeline. Section 1E is approximately 2,100 linear feet of 108" pipeline. The Segment 1D/1E and AO Improvements (The Project) will include design and bid phase services. Construction phase services will be added by amendment at a later date and are not included in this scope.

The purpose of this contract is to provide the following Engineering Services:

## Basic Services -

- TASK 1- Project Management and Support
- TASK 2- Preliminary Engineering Design
- TASK 3- Final Engineering Design
- TASK 4- Bid Phase Services
- TASK 5- Geotechnical Investigation
- TASK 6- Topographic Surveying Services
- TASK 7- Easement Documentation
- TASK 8- Subsurface Utility Engineering Services
- TASK 9- Staging, Accessibility and Phasing
- TASK 10- Traffic Control

## Additional Services 1

- TASK 11- Geomorphology Analysis
- TASK 12- Stormwater Review & Floodplain Permitting
- TASK 13- Existing PCCP Pipe Analysis
- TASK 14- Geotechnical Baseline Report
- TASK 15- Bid Phase: Prepurchase of Valves
- TASK 16- Contingency

The Project will include the following bid packages:

1. Section 1D and 1E pipeline and AO Improvements
2. Prepurchase of the valves needed for the 1D, 1E, and the AO Improvements.
  - a. This is expected to also include valves for sections 2 and 4.
  - b. This bid package is an additional service.

If additional bid packages are included, then additional compensation will be discussed and mutually agreed upon.

The Project will include the conventional design-bid-build delivery method utilizing Competitive Sealed Proposals (CSP) for procurement of construction services and Request for Proposals (RFP) for procurement of large diameter valves.

The following assumptions are made for the scope of work.

- a. FNI's Construction Phase Engineering Services will be a separate contract amendment coinciding with the Bid Award.
- b. No value engineering is being considered. Sound design practice will be used but specific value engineering analysis will not be provided.
- c. The design will use Envision Rating System practices; however, Envision certification will not be acquired.
- d. No rehabilitation of the AO facilities and discharge header are being performed in this contract. AO facility impacts are limited to the replacement of the outside piping and valves only. Valves to be replaced are R410, C412, C413, X415, and R411.
- e. No public outreach is required for this project. Any needed public outreach that may be needed will be handled by TRWD with the exception of Right of Entry letters for survey and easement purposes.
- f. Project stakeholder coordination will be initiated by TRWD staff and continue as such unless TRWD request FNI to take over communications in specified areas. This coordination effort is not included in the current scope of work and will be an additional service. The current scope of work includes up to 4-1 hour meetings for the PM and Lead Design Engineer with outside stakeholders. Potential stakeholders are Fort Worth Water Department, Trinity River Authority, Lake Arlington Management, the City of Forest Hill, Kennedale, Tarrant County, TxDOT, and local businesses. This is not an exhaustive list and other stakeholders may be identified during the design.
- g. Section 1D and 1E needs to be able to maintain pig-ability.
- h. Valves will be manually operated.
- i. Planned factory valve testing visits at the valve manufacturer's facility will be handled by TRWD by separate IDIQ.
- j. TRWD will provide HGLs for steady state analysis and their consultant will provide surge envelopes related to FNI's design for air valve placement.
- k. Pipeline 1D, 1E, and AO Improvements will be located within existing easements; however, temporary construction easements may be required. TCE's will be acquired by TRWD.
- l. No electrical or communication appurtenances are included in this design package.
- m. No value engineering is included in this design package.
- n. No flood plain permitting is included in this scope of work.

The following services are not part of this contract scope of work with FNI, and will be provided by TRWD or other TRWD consultants, working in close coordination with the FNI design team:

1. Environmental Studies and Permitting, including Tree Surveys and wetland delineation
2. Corrosion Engineering
3. Surge Analysis
4. Hydraulic Modeling
5. Public Relations
6. Easement Acquisition

Up to 15 meetings with other TRWD consultants is included with this scope of work.

## ARTICLE II

**BASIC SERVICES:** Upon execution of this Agreement, FNI shall provide the following professional services in connection with the Project:

### A. TASK 1. PROJECT MANAGEMENT

1. Conduct kickoff meeting to review scope, schedule, and budget; determine any special conditions that may affect design and/or construction; discuss administrative requirements of Owner; and to develop design criteria specific to the project. TRWD Design Criteria from the IPL project Specifications, and Details will be utilized for the project.
2. Manage efforts of internal design team and sub-consultants on the Project and perform Quality Control review of all deliverables. FNI will provide a copy of FNI's Quality Control Plan for the project within 30 days of receiving the signed contract.
3. Prepare meeting agendas, attend, and prepare minutes for the following meetings:
  - a. 32 monthly project coordination meetings with Owner. These will be virtual unless prior notification is requested for an in-person meeting.
  - b. Bi-weekly PM to PM check phone calls.
  - c. 15 meetings with third parties, including other consultants providing services to Owner.
  - d. 10 in-person workshops for review of milestone design submittals (Technical Memorandums, 60%, 95%, 100%).
4. Prepare a Microsoft Project schedule and provide monthly updates including revisions to bring the Project back on schedule if needed. FNI will coordinate with program wide consultants to confirm information needed to support the design and bid services is tracked in the overall project schedule. The project schedule will not be resource loaded.
5. Utilize the Owner's web-based Document Control System (DCS) (TRWD Project Portal – SharePoint Site). Share documents through the DCS including deliverables, minutes, decision logs, action items, reports, construction submittals, and other pertinent documents.
6. Prepare monthly reporting including status report, recent activities, upcoming activities, action items log, decisions made log, budget updates, schedule updates, and scope changes. Prepare monthly invoices.
7. Deliverables include the following:
  - a. Quality Control Plan
  - b. Project Organization Chart, including named project leads for FNI and Subconsultants
  - c. Agendas and minutes for all meetings
  - d. Project schedule updated monthly
  - e. Planned cash flow
  - f. Monthly reporting
  - g. Monthly invoices and cash flow updates

### B. TASK 2 PRELIMINARY ENGINEERING DESIGN PHASE: FNI and its Subconsultants shall provide professional services in this phase as follows:

1. Collect and review existing data, reports, mapping, and records from Owner. Review documents associated with the project. Provide analyses of Owner's requirements for the Project, including

planning, surveys, and site evaluations . Data request will be provided immediately upon Notice to Proceed.

2. Conduct a workshop with Owner's staff to discuss 20% pipeline layouts, Owner's preferences, and alternatives to be studied. FNI will bring a strip map and lead designers from the major disciplines to the workshop.
3. The pipeline studies shall include analysis of hydraulics, delivery point locations, construction costs, conflicts with existing infrastructure, easement requirements and acquisition, land costs (to be provided by Owner), environmental considerations, grading considerations, accessibility, permitting requirements, and identification of locations where trenchless crossings will be required. Study will include site visits to points of public access. Final deliverable for the pipe route will be provided as an 11" x 17" GIS map book at 1" = 400' scale.
4. Analysis and recommendations for geomorphology around the stream crossing. See Task 5.
5. Analysis and recommendations for storm drain channel in the existing pipeline easement corridor. See Task 6.
6. The following studies will be conducted to confirm the preliminary design of the project components. Results of the studies will be presented in workshops with the meeting minutes and meeting materials serving as the documentation.
  - a. Workshop # 1: Pipeline Alignment & Design:
    - i. Pipeline Material & Manufacturer Review – a summary of pipeline material and manufacturer options for final design and bidding.
    - ii. Pipeline Permitting Requirements – a summary of the various utility and road crossing requirements.
    - iii. Evaluate proposed methods of pipeline construction, open cut vs. trenchless, along the proposed alignment
    - iv. Hydraulic Grade Line based on TRWD modeling.
    - v. 30% GIS alignment sheets to be included as the final Engineering Report. See Item 11 below.
  - b. Workshop # 2: Land Acquisition - a summary of permanent and temporary easement needs. A discussion on temporary staging, haul roads, and access needs will also be included. The easement needs will be shown on a mapbook for approval prior to moving forward with easement preparation.
  - c. Workshop # 3: AO Pipe and Valve Replacement – a summary of identified hydraulic demand flows and operational requirements. FNI will analyze up to two (2) operational scenarios. TRWD will identify minimum acceptable flows at delivery locations. Project team will evaluate crossover and mainline valve options, yard piping configurations, and select preferred option. Project team will coordinate with separate consultant for hydraulic analysis. Analysis will also evaluate early procurement.
  - d. Workshop # 4: Pipeline Connections and Valve Analysis at the Rolling Hills Booster Pump Station, and other potential areas of tie-in's with existing TRWD pipelines (e.g. 1E/1D transition area).
7. The design team will review the Project against the Envision Rating System Checklist to determine if there are opportunities for increasing the resiliency and sustainability of the project. Discuss findings during a monthly project meeting.

8. Coordinate and incorporate information from other TRWD consultants.
    - a. Consultant will attend the kick-off meeting with the environmental team, if requested, and up to 6 progress meetings with the environmental team.
    - b. Discuss the potential environmental permitting requirements associated with a design component and how it could affect project schedule, alternatives analysis, and protected resources. Assist to determine what engineering deliverables are needed for the environmental team such that they can obtain all environmental permits for the Project.
    - c. Provide data to the TRWD consultants as requested.
    - d. Review draft data from program wide consultants and provide feedback on how it could affect alternatives analysis, design, and project schedule.
  9. At the conclusion of the preliminary design phase, the design, discussion and decisions from the four workshops will be assembled into one complete document with an Executive Summary and OPCC for the Project. This document will serve as the Engineering Report and will not be updated as the project progresses.
  10. Furnish an electronic copy of the Engineering Report and present to Owner. The Engineering Report will be presented to the Owner as a final document. There will be no comment review period for this document.
  11. Deliverables for the Preliminary Design Phase include the following:
    - a. Design workshop discussing 15% pipeline strip map
    - b. 30% GIS alignment plan view sheets
    - c. Overall Hydraulic Grade Line
    - d. Draft and Final Pipeline Alignment Map Books
    - e. Arlington Outlet Process Diagram
    - f. Final Engineering Report that includes an executive summary and OPCC.
    - g. Agendas and minutes for all meetings
    - h. Project schedule updated monthly
    - i. Monthly reporting
- D. TASK 3 FINAL ENGINEERING DESIGN PHASE: After approval of the Engineering Report for the 1D/1E pipeline and AO Improvements, FNI will provide professional services in this phase as follows:
1. Prepare front end documents, including bid documents, general conditions, and special conditions for the one construction package, based upon Owner's standard documents. Meet with Owner to resolve review comments, and revise documents accordingly.
  2. Advise Owner of need for and recommend scope of Additional Services, not already included in this Scope of Work. The cost of such Additional Services shall be paid by Owner and are not included in the services performed by FNI.
  3. Prepare applications for routine permits such as road crossing permits, gas line crossing permits, and Oncor crossing permits. FNI to provide design documents that conform to local codes and meet with code officials as needed during design. Owner shall pay for fees if required.

4. Furnish such information necessary to utility companies whose facilities may be affected, or services may be required for the Project. Easements for utility companies will be provided as a Additional Service.
5. Storm Drain Design as required for replacement.
6. Coordination with environmental team, easement acquisition team, surge modeling team, hydraulic modeling team, and corrosion design team.
  - a. Provide data to the TRWD consultants as requested.
  - b. Review draft environmental commitments from the permit to confirm these commitments are properly identified in the contract documents.
7. Prepare revised opinion of probable construction cost at the 60%, 95%, and 100% submittals.
8. 60% Review: Upon approval of 30% submittal, prepare drawings, specification's table of contents and non-standard TRWD specifications (as needed to supplement TRWD Standard Specifications), construction contract documents, designs, and layouts of improvements to be constructed. Furnish Owner digital drawings, 3D models, specifications, and bid proposals marked "60% Submittal" for review by Owner. FNI will meet with the Owner to present the plans and specifications and receive comments. Review documents will include dimensional layout drawings, plans, sections, and elevations for all the trades, typical details, and most special details. Pipeline plans will include plan and profile sheets, pipeline appurtenances, and typical details. FNI will address comments from Owner in the set prepared for 95% Review. FNI will coordinate with the Owner and the Environmental Consultant to assist with information needed to submit the 404 Permit. Review and comment tracking for 60% review will be conducted in Bluebeam Studio.
9. 60% Design Submittal – Furnish Owner electronic (PDF) plans a 60% documents for the TRWD's review. No hard copies will be provided.
10. 95% Review: Upon approval of 60% submittal, furnish Owner digital drawings, specifications, and bid proposals marked "95% Submittal" for approval by Owner. For construction packages with CSP, prepare instructions to proposers, proposal evaluation criteria and proposal submittal requirements. Prepare bidder's proposal forms (project quantities of the improvements to be constructed. FNI will meet with the Owner to present the plans and specifications and receive comments. Review documents will include all plans and specifications with minor corrections and notes remaining. FNI will receive comments from Owner and address comments in the Final Draft. Review and comment tracking for 95% review will be conducted in Bluebeam Studio.
11. 95% Design Submittal – Furnish Owner electronic (PDF) plans 95% documents for the TRWD's review. No hard copies will be provided.
12. 100% Review: FNI will provide Owner "100%" before finalizing with signed and sealed plans and specifications. With Owner acceptance of final changes from 95% review, signed and sealed final plans will prepared and delivered to Owner. Review and comment tracking for 95% review will be conducted in Bluebeam Studio.
13. 100% Design Submittal – Furnish Owner electronic (PDF) plans and a total of five (5) sets of half-size (11"x17") 95% documents for the TRWD's review.
14. Deliverables for the Final Design Phase include:
  - a. Front end documents for construction



- b. Routine Permit Applications (Road Crossing, TCEQ Approval, Gas Line Crossing, Oncon Crossing, Park Crossing)
  - c. OPCC at PDR, 60% 95%, and 100%
  - d. 60% submittal of Plans and Specifications
  - e. 95% submittal of Plans and Specifications, and reconciled comment tracking log from 60% design review in Bluebeam Studio.
  - f. 100% submittal of Plans and Specifications, and reconciled comment tracking log from 95% design review in Bluebeam Studio.
  - g. Final signed and sealed Plans and Specifications
- E. TASK 4 BID PHASE: Upon completion of the design services and approval of “Final” drawings and specifications by Owner, FNI will proceed with the performance of services in this phase as follows:
- 1. Assist Owner in securing bids. Edit the specifications Notice to Bidders and provide a copy of the notice to bidders for Owner to use in posting on the Owner’s procurement website. The cost for publications shall be paid by Owner.
  - 2. Submit electronic copies of plans, specifications and bidding documents to Owner for advertisement on their OpenGov procurement portal. Prospective bidders may download and print documents from OpenGov, who will maintain plan holder list and post addenda. FNI will also list bid projects on the FNI website.
  - 3. Assist Owner by responding to questions and interpreting bid documents. Prepare and issue addenda to the bid documents to OpenGov if necessary.
  - 4. Assist the Owner in conducting a pre-bid conference for the construction projects and coordinate responses with Owner. Response to the pre-bid conference will be in the form of addenda issued after the conference.
  - 5. After receipt of proposals, prepare preliminary tabulation of scoring criteria for the bidders, check references, review qualifications and experience, prepare a summary of observations and meet with Owner to review proposals. If necessary, attend interviews with short-listed proposers and assist Owner with final scoring. Prepare a recommendation of award of contracts or other actions as appropriate
  - 6. Assist Owner in the preparation of Construction Contract Documents for each of the construction contracts. An “Issued for Construction” set of Contract Documents will be provided with addendum items posted. Provide a digital PDF version of Construction Contract Documents for each of the construction contracts which include information from the selected bidders’ bid documents, legal documents, and addenda bound in the documents for execution by the Owner and construction contractor. Five hard copies of half size (11”x17”) 100% plan set and three full size (22”x34”) will be provided. Additional printed sets of documents can be provided as an additional service.
  - 7. Furnish contractor digital copies of the drawings and specifications for construction pursuant to the General Conditions of the Construction Contract.
  - 8. Deliverables for the Bid or Negotiation Phase include:
    - a. Notice to Bidders
    - b. Electronic copies of plans, specifications, bidding documents, and addenda
    - c. Tabulation of selection criteria for Proposers (CSP Only)

- d. Recommendation of Award with tabulation of bids
- e. Notice of award to selected bidder
- f. Conformed contract documents for execution
- g. Electronic copies of conformed contract documents for Contractor and Owner

F. TASK 5 GEOTECHNICAL INVESTIGATION:

Upon written notification and approval, the following activities will be included in this task.

The proposed geotechnical scope of work for the project will consist of field exploration, laboratory testing, engineering analysis, and reporting, as presented below.

1. Field Exploration

- a. Select and mark up to 20 boring locations and notify Texas 811 and TRWD to request location and marking of existing underground utilities prior to the field exploration.
- b. One boring is anticipated to be drilled through the existing pavement on Anglin Road. Traffic control will be set up to close one lane of traffic and route vehicles around the drilling zone. All other borings are anticipated to be drilled within the easement except one boring will be drilled at the end of Ball Road which is a gravel road. Traffic control is not anticipated for this boring.
- c. Subcontract with a geotechnical drilling contractor to drill up to 20 borings to depths ranging from 20 to 45 feet. Samples will be collected intermittently using continuous flight augers and either split-spoon or tube samplers. Rock and rock-like materials will be cored or tested insitu using a TxDOT Cone Penetration Test, as appropriate for the material. Five samples will be utilized for corrosion testing.
- d. Piezometers will be constructed in up to eight (8) of the borings to evaluate groundwater conditions for some of the trenchless crossings. Piezometers will be constructed and developed in accordance with the requirements of the Texas Department of Licensing and Regulation and reported to the State of Texas. Piezometers will remain in place through construction for use and monitoring by the contractor and ultimately will be removed and abandoned by the contractor.
- e. At completion, the boreholes will be backfilled with auger cuttings and the pavement patched (boring drilled through pavement).
  - i. Provide an Engineer or Geologist experienced in logging borings to direct the drilling, log the borings, and handle and transport the samples. Visual classification of the subsurface stratigraphy shall be provided per the Unified Soil Classification System (USCS).

2. Laboratory Testing

- a. Testing shall be performed on samples obtained from the borings to determine soil classification and pertinent engineering properties of the subsurface materials. FNI will select samples for laboratory testing, assign tests, and review the test results. Testing will be performed by a geotechnical testing subcontractor.
- b. Laboratory tests will be assigned based on the specific subsurface materials encountered during exploration. Test type and quantity may vary, but are expected to include:
  - i. Classification tests (liquid and plastic limits and percent passing the no. 200 sieve or gradation)
  - ii. Moisture content

- iii. Dry unit weight
  - iv. Unconfined compressive strength
  - v. Corrositivity Testing (electrical resistivity/conductivity, pH, and sulfate/chloride content)
  - vi. CERCHAR Abrasivity (Rock Only)
  - vii. Splitting Tensile Strength – Brazilian
  - viii. Slake Durability (Rock Only)
3. Engineering Analysis
- a. Prepare a geotechnical data report (GDR) of the investigation to include:
    - i. Appendix with the boring locations, boring logs, laboratory test results, and a key to the symbols used.
    - ii. Discussion of subsurface conditions and soil properties indicated by the field and laboratory work, and the implications for design.
    - iii. General discussion of expected construction related issues, including recommendations for backfill and excavation methods for the water pipeline.
    - iv. Earthwork related recommendations for use during development of the plans and specifications.

G. TASK 6 TOPOGRAPHICAL SURVEYING PHASE:

Upon written notification and approval, FNI shall retain (as a subconsultant) and monitor the services of a surveying firm to perform surveying services for the project. The following survey shall be provided:

1. Establish project control using Global Positioning System (GPS) methodology. Horizontal values will be based on the Texas State Plane Coordinate System, North American Datum of 1983, North Central Zone (4202), and scaled to surface using a surface adjustment factor of 1.00012. The vertical values will be based on GPS derived ellipsoid heights and adjusted to North American Vertical Datum of 1988 (NAVD88) elevations using Geoid 18. Control Points will also be tied into TRWD control monuments.
2. Research current property owners and obtain copies of subdivision plats, ownership deeds, and existing easements within the project area.
3. Locate existing property corners and right-of-way corners to establish property lines and street rights-of-way.
4. Design survey to include pavement edges, curb and gutter, buildings, driveways, culverts, fences and gates, signs, mailboxes, tops and toes of slopes, spot elevations, trees six (6) inches and greater, surface locations of utilities and flowline elevations of sanitary and storm sewer manholes where accessible, and other surface features. Surveyor will also pick-up designations by the SUE sub and boring locations. The design survey will capture the following areas
  - a. Pipeline route – 210' wide
5. Provide a digital design survey drawing in AutoCAD (.dwg) format prepared to FNI standards showing visible surface features located, an ASCII point file, and a copy of field notes and field sketches.

6. Perform a one-time staking of the existing easements. The easements will be staked with 4' laths at all PCs, PTs, PIs, and at intervals to accommodate line of sight for assessment of alignment location and impact.
7. Perform a one-time staking of the proposed alignment. The alignment will be staked with 4' laths at all PCs, PTs, PIs, and at intervals to accommodate line of sight for assessment of alignment location and impact.
8. Perform a one-time staking of the proposed easements. The easements will be staked with 4' laths at all PCs, PTs, PIs, and at intervals to accommodate line of sight for assessment of alignment location and impact.

#### H. TASK 7 EASEMENT DOCUMENTATION SERVICES PHASE:

Upon written notification and approval, FNI shall retain (as a subconsultant) and monitor the services of a surveying firm to perform easement document services for the project. The following shall be provided:

1. Prepare up to **five** parcel exhibits with legal descriptions for permanent easements associated with the 1D/1E Pipeline.
2. Prepare up to **thirty** parcel exhibits with legal descriptions for temporary easements associated with the 1D/1E Pipeline.
3. Prepare documents using the standard TRWD form for review by the TRWD GIS department.

#### I. TASK 8 SUBSURFACE UTILITY ENGINEERING PHASE:

Upon written notification and approval, FNI shall retain (as a subconsultant) and monitor subsurface utility engineering (SUE) services. SUE work required for this project in general accordance with the recommended practices and procedures described in ASCE Publication CI/ASCE 38-02 (Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data):

1. As described in the mentioned ASCE publication, four levels have been established to describe the quality of utility location and attribute information used on plans. The four quality levels are as follows:
  - a. Quality Level D (QL "D") – Information derived from existing records.
  - b. Quality Level C (QL "C") – QL "D" information supplemented with information obtained by surveying visible above-ground utility features (i.e. valves, hydrants, meters, manhole covers, etc.).
  - c. Quality Level B (QL "B") – Two-dimensional (x, y) information obtained through the application and interpretation of non-destructive surface geophysical methods. Also known as "designating" this quality level provides the horizontal position of subsurface utilities within approximately one foot.
  - d. Quality Level A (QL "A") – Also known as "locating", this quality level provides precise three-dimensional (x, y, z) information at critical locations by exposing specific utilities. Non-destructive vacuum excavation equipment is used to expose the utilities at specific points which are then tied down by survey.
2. For this project, QL's "B" and "A" SUE, as previously defined, will be provided. The QL "B" will be included along the entirety of the pipeline.
3. The QL "A" will consist of up to **80** test holes, along the proposed water line alignment.
4. FNI and subconsultant will attempt to place the test holes outside the paved areas wherever possible. However, some test holes may be needed in areas that may require traffic control

measures. Subconsultant will establish routine/ordinary traffic control (cones and free-standing signage, etc.) whenever required as part of this scope. If non-routine traffic control measures are required (barricades, flag person, changeable message board, etc.) these services will be additional to the contract.

J. TASK 9 STAGING, ACCESSIBILITY AND PHASING PHASE:

Upon written notification and approval, the following activities will be included in this task.

1. Determine easement availability for contractor staging based upon existing easement widths, current topography, trees and infrastructure, and results from task 11 above.
2. Determine accessible routes for contractor during construction and determine temporary construction easement needs. Identify improvements needed for accessibility for construction and maintenance.
3. Provide recommendations for practical construction phasing plan considering the full scope of 1D/1E pipeline installation and AO Improvements. Develop specification identifying critical connections and operations and maximum time out of service for these operations. Up to two (2) operational scenarios will be considered. TRWD will identify minimum acceptable flows at delivery locations. Coordinate shutdowns with TRWD. TRWD will handle the coordination efforts with it's customers for shutdowns.
4. Conduct constructability review coordination and meetings with potential contractors for contractor feedback (up to four meetings with contractors).
5. Deliverables will include:
  - a. Technical memorandum documenting results of analysis.
  - b. Plan sheets and specifications as required to communicate staging, accessibility and phasing requirements.

K. TASK 10 TRAFFIC CONTROL:

Upon written notification and approval, the following activities will be included in this task.

1. Provide Traffic control and SWPPP for The Project. Deliverables will include:
  - a. Traffic Control write-up and exhibits will be included in the Engineering Report.
  - b. Traffic control drawings will be provided for the 60%, 95% and Final submittals. Drawings will include the traffic control plans and details for the following road crossings:
    1. Wichita Street
    2. Forrest Hill Drive
    3. Ball Road
    4. Adglin Drive
    5. Unnamed drive off Everman Kennedale Road
  - c. Stakeholder coordination for traffic control will begin with TRWD staff and continue that coordination unless TRWD request FNI to take over communications in specified areas. This coordination effort is not included in the current scope of work and will be an additional service.

## ARTICLE III

### **ADDITIONAL SERVICES 1:**

F. TASK 11 GEOMORPHOLOGY ASESMENT: Upon written notification and approval, a geomorphic assessment will be performed on approximately 7,500 Linear Feet (LF) of South Creek and North Fork of South Creek between Forest Hill Circle upstream and ending near Griggs Street downstream. Approximately 1,500 LF of Chambers Creek starting at the confluence with Village Creek will be assessed. An additional five (5) discrete unnamed tributaries of South Creek and Chambers Creek where the proposed alignment crosses are anticipated. The purpose of this geomorphic assessment is to identify the potential risks related to erosion and geomorphic processes along the streams adjacent or crossing the proposed pipeline.

The following activities will be included in this assessment.

1. Desktop Analysis
  - a. Obtain and review available and relevant watershed studies, reports, and record drawings for the study area.
  - b. Obtain and review available GIS data, including topographic maps, LiDAR data, geologic maps, soil maps, and historical aerial photos.
  - c. Historical watershed development and drainage area will be assessed. The riparian setting of South and Chambers Creek will be identified and, if possible, changes in planform and long-term erosion trends will be identified.
2. Field Assessment
  - a. Professionals from FNI will conduct a site assessment where the length of the study area (approximately 10,000 LF total) will be walked to observe and document the existing geomorphic condition of streams within the proposed alignment. This includes, but is not limited to, identifying channel form, bankfull benches, slope instabilities and knickpoints, areas of bank erosion/mass wasting, channel substrate and sediment deposition patterns.
  - b. FNI will photo-document site conditions using GPS geotagged photographs.
  - c. The potential erodibility of the stream banks along the creeks will be evaluated and mapped using the rapid assessment tool, the Bank Erosion Hazard Index (BEHI). A GIS file may then be created to indicate general erosion risk along the stream banks within the project area. Specific erosion threats to potential infrastructure will also be identified.
  - d. If feasible, cross-sections may be measured at up to four (4) locations:
    - i. locations with representative geomorphic conditions,
    - ii. where the channel morphology has potential to change through time,
  - e. The average water surface slope/longitudinal profile will be evaluated if feasible using a combination of field measurements and desktop data.
  - f. If feasible, photos and/or videos will be taken using an unmanned aerial vehicle to document the visual condition of the stream.
3. Erosion Risk Assessment Along Proposed Pipeline

The existing geomorphic conditions of streams and flow features adjacent to the proposed pipeline alignment will be evaluated via Desktop Analysis to safeguard the design against future erosion risks.

- a. Review of the proposed design will be evaluated to provide future design recommendations related to potential impacts due to erosion and/or future geomorphic conditions.

#### 4. Design

This task shall include design of erosion protection and armoring for up to five (5) locations where the proposed Section D pipelines crosses unnamed tributaries of South Creek and Chambers Creek.

- a. The design will address potential concerns regarding erosion and instability due to the proposed pipeline crossing as identified in Risk Assessment.
- b. Tributary flows will not be analyzed and capacity improvements will not be included in the design scope; any work of this type shall be considered an Additional Service.

#### 5. Deliverables:

- a. FNI will provide a technical memorandum that compiles the data and analyses performed. This technical memorandum will contain the following:
  - i. A description of existing baseline conditions and the geomorphic characteristics of the streams assessed.
  - ii. A discussion of potential future geomorphic changes within the study area.
  - iii. Identification of areas where erosion could threaten existing infrastructure or cause significant land loss. This may be done through the creation of a map detailing erosion and instability locations.
  - iv. Provide the field data, GIS data, and the geotagged photos of the study site.

#### Assumptions:

1. FNI will perform field measurements using an R12 survey grade GPS if feasible. Field measurements of stream geometry will be supplemented with available topographic and GIS data.
2. These analyses are contingent upon the availability of relevant data, such as record drawings, HEC-RAS models, etc.
3. Field efforts for each of the tasks described will be conducted in a way that most effectively utilized personnel.

These tasks do not include permitting efforts associated with Waters of the United States or any other environmental regulations.

#### G. TASK 12 STORM WATER REVIEW & Permitting:

Upon written notification and approval, the following activities will be included in this task.

1. A stormwater channel replacement plan will be developed for approximately 1,700 linear feet (LF) of the existing concrete channel located on South Creek, northeast of Cobblestone Dr in Forest Hill, Texas. The extents of the channel to be replaced begin at the concrete

- channel outfall approximately 2,400 LF downstream of the Forest Hill Dr crossing and extend upstream to a point approximately 750 LF downstream of the Forest Hill Dr crossing, where the concrete channel transitions to natural channel. The proposed Section D pipeline is anticipated to be installed under or adjacent to the concrete channel through this area.
2. The stormwater design will also include replacement of the approximately 150 LF concrete section of channel located on North South Creek approximately 530 LF upstream of Forest Hill Dr, where the proposed Section D pipeline is anticipated to cross under the channel.
- FNI will provide professional services in this phase as follows:
1. Design Management and Data Collection
    - a. Collect and review existing data, including GIS data, studies, reports, mapping, and records relating to the existing stormwater infrastructure within the project area.
    - b. Conduct four (4) site visits to assess and document existing conditions of the concrete channel within the project extents.
    - c. It is assumed that environmental and floodplain permitting tasks will be performed by Others. FNI will coordinate with Client and other Consultants to provide relevant design data as needed for these tasks.
  2. Hydraulic Modeling and Documentation
    - a. This task shall include modeling of approximately 4,000 LF of the South Creek Channel. The extents of the modeling will begin at Griggs Park and extend upstream to the Forest Hill Dr channel crossing.
    - b. A technical memorandum will be prepared to document the modeling effort and discuss the findings for proposed conditions. The memorandum will include exhibits as needed to illustrate the modeling results.
  3. Storm Channel Design: South Creek Channel
    - d. This task includes design for removal and replacement of the existing concrete channel for the purpose of installing the proposed Section D pipeline.
    - e. The design will include reconstruction of the downstream channel outfall at Leo Spicer Park as well as the transitions to natural channels.
    - f. The intent of the proposed design is to match the general dimensions of the existing channel and to maintain existing stormwater flows and environmental conditions. The proposed design will aim to restore the project area to previous or better conditions where flows are disrupted.
    - g. The channel outfall at Leo Spicer Park will be analyzed for impacts to channel stability. Reconstruction of the channel outfall may require changes to existing geometry and materials. It is anticipated that riprap will be installed at the reconstructed outfall. Impacts of reconstruction will be evaluated as part of the modeling task described in Item 2.
    - h. Channel capacity will not be analyzed and capacity improvements will not be included in the design scope; any work of this type shall be considered an Additional Service.
  4. Floodplain Permitting: Prepare application and exhibits for floodplain permitting in the associated Cities and Counties of Construction.



## 5. Deliverables

- a. Deliverables for this task consist of the follow design plan sheets:
  - i. Layout Sheet
  - ii. Proposed Plan & Profile
  - iii. Grading Plans
  - iv. Erosion Control Plan
  - v. Detail Sheets
- b. A technical memorandum detailing the modeling process and findings.
- c. Deliverables will be incorporated into the overall project plan sets and submittal packages and will be submitted at the 30%, 60%, 95%, and Final Milestones.

### Assumptions:

1. Capacity improvements will not be included in the project. Alternatives analysis for proposed improvements are not included in this scope and will be considered an additional service.
2. Structural design is not included in this scope of work. Any work of this kind will be considered an additional service.
3. Geotechnical analysis is not included in this scope of work. Any work of this kind will be considered an additional service.
4. It is assumed the project will cause no adverse impacts to the floodplain and will not require floodway modeling or development of a LOMR/CLOMR. Any work of this kind will be considered an additional service.
5. It is assumed all proposed pipe crossings at channels will be buried beneath the channel flowline and will not be exposed.
6. Environmental and floodplain permitting tasks will be performed by others as part of a separate contract with TRWD.
7. Relevant hydrologic/hydraulic models will be provided by TRWD and will be utilized as-is for the modeling efforts described in this task.

## H. TASK 13 EXISTING PCCP ANALYSIS PHASE:

Upon written notification and approval, the following activities will be included in this task.

1. The purpose of our work is to evaluate existing RC, CC, and Benbrook pipelines based on available pipeline design and condition assessment data and to make recommendations as to the maximum allowable construction load that can be operated over the existing pipelines. The scope of our work includes structural evaluation of the portions of the existing PCCP lines that parallel the Section 1D and 1E pipelines. Our initial review of the existing pipeline documents indicate that sixteen pipe classes of 72, 90, and 108 in. diameter require evaluation based on the AWWA C304 design standard Unified Design Procedure (UDP).
  - a. Data Review and Planning. Review available documents related to the pipeline and anticipated construction project above it, including plan and profile drawings, pipe design sheets, pipeline pressures, geotechnical reports, reports of pipeline inspections, and other relevant information.

- b. Analysis of Connection to Existing Pipe. Perform a soil structure interaction (SSI) analysis of the new and existing pipe connection using finite element analysis (FEA). Model the pipeline 3D geometry, the mechanical properties of the pipes, the joints and support saddles, and the soil resistance to the lateral and longitudinal motion of the pipe. The model will include portions of the existing pipeline and the new pipeline, including substantial portions of the new pipeline away from the Rolling Hills WTP. Internal pressure loads and thermal loads will be considered. Based on the soil properties from past analyses along IPL, Type V soil from AWWA M9 will be considered to model the soil support for the new pipeline, and the geotechnical data will be reviewed to confirm this assumption.
    - i. A Power Point summary including the FEA model inputs and results will be provided.
  - c. Conceptual design of Thrust Restrain. Conceptual design of additional supports to resist the demands at the connection location. Two conceptual design options will be developed for review by the design team.
    - i. Option 1 – Adding extra saddle supports on the existing pipeline to resist the additional loads imposed from the new pipeline.
    - ii. Option 2 – Adding a thrust block on the new pipeline or at the connection to resist the additional loads imposed from the new pipeline. The thrust block may need to tie into the foundations of the existing pipeline.
    - iii. Results will be added to the Power Point summary of the SSI analysis.
  - d. Calculation of Allowable Construction Live Loads. Perform a structural evaluation of the pipe designs using the computer program UDP, which follows the current AWWA C304 standard for the design of PCCP. We will check the serviceability, elastic, and strength limit states specified in AWWA C304 for the combined internal and external loads. We will quantify the available capacity of the pipe to resist temporary construction loads. Our analysis will be based on the assumed good condition of the pipe, and we will identify any locations of known distress. The results of our analysis will determine whether any of the current PCCP design limit states are exceeded. The working and transient pressures provided by Freese & Nichols (FNI) or TRWD will be considered as well as the existing soil cover from the as-built profile drawings.
  - e. Prepare a draft and final letter report including the results of calculations for sixteen pipe classes and recommendations regarding the maximum allowable construction loading over the PCCP. The recommendations may include inspection to assess the pipeline condition.
- I. TASK 14 Geotechnical Baseline Report: This additional service will be provided with the approval TRWD and at the fee noted in the compensation section.
- 1. Prepare a Geotechnical Baseline Report (GBR).
    - i. A GBR will be prepared to describe the geotechnical conditions anticipated to be encountered for the construction of up to ten (10) of the trenchless crossings along the pipeline alignment.
  - 2. The GBR will focus on the more significant trenchless crossings along the pipeline such as the longer crossings through wetland areas, underneath creeks or other areas where groundwater is a concern, or otherwise areas where the geology is complex.
  - 3. The GBR will be only the geotechnical interpretive document upon which the contractor may rely for bidding and construction. The GBR will be limited to interpretive discussion and baseline statements of information contained in the GDR.
  - 4. The GBR will be prepared in accordance with the ASCE's Suggested Guidelines for Geotechnical Baseline Reports for Construction.
  - 5. The GBR will be considered a contract document.

- J. TASK 15 BID PHASE: Prepurchase of Valves: This additional service will be provided with TRWD approval and at the fee noted in the compensation section.

Upon completion of the design services and approval of “Final” drawings and specifications by Owner, FNI will proceed with the performance of services in this phase as follows:

1. Assist Owner in securing bids. Prepare a Notice to Bidders and provide a copy of the notice to bidders for Owner to use in posting on the Owner’s procurement website. The cost for publications shall be paid by Owner.
2. Submit electronic copies of plans, specifications and bidding documents to Owner for advertisement on their OpenGov procurement portal. Prospective bidders may download and print documents from OpenGov, who will maintain plan holder list and post addenda. FNI will also list bid projects on the FNI website.
3. It is anticipated additional valves may be added to prepurchase valve package. TRWD will provide size, flange type, and pressure class needed for additional valve procurement.
4. Assist Owner by responding to questions and interpreting bid documents. Prepare and issue addenda to the bid documents to OpenGov if necessary.
5. Assist the Owner in conducting a pre-bid conference for the Bid Packages and coordinate responses with Owner. Response to the pre-bid conference will be in the form of addenda issued after the conference.
6. After receipt of proposals, prepare preliminary tabulation of scoring criteria for the bidders, check references, review qualifications and experience, prepare a summary of observations and meet with Owner to review proposals. If necessary, attend interviews with short-listed proposers and assist Owner with final scoring. Prepare a recommendation of award of contracts or other actions as appropriate.
7. Assist Owner in the preparation of Contract Documents for each of the contracts. An “Issued for Construction” set of Contract Documents will be provided with addendum items posted. Provide a digital PDF version of Contract Documents for each of the contracts which include information from the selected bidders’ bid documents, legal documents, and addenda bound in the documents for execution by the Owner and equipment supplier. Printed sets of documents can be provided as an additional service.
8. Furnish digital copies of the drawings and specifications pursuant to the General Conditions of the Contract.
9. Deliverables for the Bid or Negotiation Phase include:
  - a. Notice to Bidders
  - b. Electronic copies of plans, specifications, bidding documents, and addenda
  - c. Tabulation of selection criteria for Proposers (CSP Only)
  - d. Recommendation of Award with tabulation of bids
  - e. Notice of award to selected bidder
  - f. Conformed contract documents for execution
  - g. Electronic copies of conformed contract documents for Equipment Supplier and Owner

- K. TASK 16 Contingency: Contingency funds are included in the contract to pay for work not defined specifically by the Agreement that is essential to the completion of the Project. Contingency funds will be as described in the Agreement. The contingency funds may be used for costs incurred by consultant, provided these costs are approved by TRWD.

#### ARTICLE IV

**ADDITIONAL SERVICES 2:** Additional Services to be performed by FNI, if authorized by Owner, which are not included in the above Basic Services. The below services do not have a pre-agreed upon price and will need to be negotiated. The services are described as follows:

- A. Field layouts or the furnishing of construction line and grade surveys.
- B. Providing services to investigate existing conditions or facilities, or to make measured drawings thereof, or to verify the accuracy of drawings or other information furnished by Owner.
- C. Providing renderings, model, and mock-ups requested by the Owner.
- D. Making revisions to drawings, specifications or other documents when such revisions are 1) not consistent with approvals or instructions previously given by Owner or 2) due to other causes not within the control of FNI. This does not exclude revision of work done based upon unverified data or unverified assumptions of Owner's preferences. FNI shall inform Owner of the impact to changing previous decisions before work is done to implement the new decision.
- E. Providing consultation concerning the replacement of any Work damaged by fire or other cause during the Project and providing services as may be required in connection with the replacement of such Work. Performing investigations, studies, and analysis of work proposed by Construction Contractor(s) to correct defective work. Any services required as a result of default of the Contractor(s) or the failure, for any reason, of the Contractor(s) to complete the work within the Contract time. Providing services after the completion of the construction phase not specifically listed in Article II, III and IV. Visits to the site in excess of the number of trips included in Article II, III and VI for periodic site visits, coordination meetings, or contract completion activities. Providing services made necessary because of unforeseen, concealed, or differing site conditions or due to the presence of hazardous substances in any form. Providing services to review or evaluate construction contractor(s) claim(s), provided said claims are supported by causes not within the control of FNI. Providing value engineering studies or reviews of cost savings proposed by Construction Contractor(s). Provide professional services during Contractor's warranty period.
- F. Professional services involving consideration of operation, maintenance and overhead expenses, and the preparation of rate schedules, earnings and expense statements, feasibility studies, appraisals, evaluations, assessment schedules, and material audits or inventories required for certification of force account construction performed by Owner.
- G. Preparing applications and/or supporting documents for government grants, loans, or planning advances and/or providing data for same.
- H. Conducting pilot or bench studies or tests.
- I. Preparing data and reports for assistance to Owner in preparation for hearings before regulatory agencies, courts, arbitration panels or any mediator, giving testimony, personally or by deposition, and preparations therefore before any regulatory agency, court, arbitration panel or mediator.
- J. Assisting Owner in preparing for, or appearing at litigation, mediation, arbitration, dispute review boards, or other legal and/or administrative proceedings in the defense or prosecution of claims disputes with Contractor(s).
- K. Assisting Owner in the defense or prosecution of litigation in connection with or in addition to those services contemplated by this Agreement. Such services, if any, shall be furnished by FNI on a fee basis negotiated by the respective parties outside of and in addition to this Agreement.

- L. Providing archeological or environmental support services including the design and implementation of ecological baseline studies, environmental monitoring, impact assessment and analyses, permitting assistance, and other assistance required to address environmental issues.
- M. Design, contract modifications, studies or analysis required to comply with local, State, Federal or other regulatory agencies that become effective after the date of this agreement.
- N. Services required to resolve bid protests or to rebid the Project(s) for any reason.
- O. Providing Basic Services on an accelerated time schedule. The scope of this service includes cost for overtime wages of employees and consultants, inefficiencies in work sequence and plotting or reproduction costs directly attributable to an accelerated time schedule directed by the Owner.
- P. Recreation of existing H&H models if digital files of the effective models are not available.
- Q. The preparation of Electrical, Instrumentation & Control, structural, or HVAC specifications or plan sheets.
- R. The preparation of SWPP and erosion control documents including plan and specification requirements.

## ARTICLE V

**TIME OF COMPLETION:** FNI is authorized to commence work on the Project upon execution of this Agreement and agrees to complete the services in accordance with the following schedule:

- Preliminary Design Phase will be completed within 14 months from the Notice to Proceed.
- 60% Design will be completed within 5 months from approval of preliminary design
- 95% design will be completed within 4 months of approval of 60% design
- 100% design will be completed within 3 months of approval of 95% design

If FNI's services are delayed through no fault of FNI, FNI shall be entitled to adjust contract schedule consistent with the number of days of delay. FNI is responsible for delays related to management of its retained subs for any of the tasks listed herein and is not permitted to adjust the contract schedule or additional compensation unless agreed to in writing by TRWD. Other delays may include but are not limited to delays in Owner or regulatory reviews, delays on the flow of information to be provided to FNI, governmental approvals, weather delays on scheduled activities, etc. These delays may result in an adjustment to compensation as outlined on the face of this Agreement and in Attachment CO.

ARTICLE VI

**RESPONSIBILITIES OF Owner:** Deleted.

ARTICLE VII

**DESIGNATED REPRESENTATIVES:** FNI and Owner designate the following representatives:

Owner's Designated Representative – Alan Thomas

Owner's Accounting Representative – Veronica Enriquez

FNI's Designated Representative – Scott Maughn, PE, [asm@freese.com](mailto:asm@freese.com), 214-217-2260.

FNI's Accounting Representative – Lisa Broussard



**COST SUMMARY TABLE**

Cost

<b>Basic Services</b>	<b>Fee</b>
Task 1 - Project Management	\$ 581,462.00
Task 2 - Preliminary Design	\$ 1,095,216.00
Task 3 - Final Design	\$ 1,566,783.00
Task 4 - Bid Submittal	\$ 106,543.00
Task 5 - Geotechnical Investigation	\$ 147,184.00
Task 6 - Topographic Survey	\$ 266,108.00
Task 7 - Easement Documents	\$ 131,342.00
Task 8 - Subsurface Utility Engineering	\$ 298,480.00
Task 9 - Staging, Accessibility and Phasing	\$ 234,529.00
Task 10 - Traffic Control	\$ 147,529.00
<b>Basic Services Total</b>	<b>\$ 4,575,176.00</b>
<b>Additional Services</b>	
Task 11 - Geomorphology Analysis	\$ 68,354.00
Task 12 - Stormwater Review & Floodplain Permitting	\$ 185,004.00
Task 13 - Existing PCCP Pipe Analysis	\$ 121,656.00
Task 14 - Geotechnical Baseline Report	\$ 34,804.00
Task 15 - Bid/Negotiation for Prepurchase of AO Valves	\$ 54,285.00
Task 16 - Contingency	\$ 200,000.00
<b>Additional Services Total</b>	<b>\$ 664,103.00</b>
<b>Total</b>	<b>\$ 5,239,279.00</b>

## TARRANT REGIONAL WATER DISTRICT

### AGENDA ITEM 10

**DATE:** September 17, 2024

**SUBJECT:** Consider Approval of Contract with V&A Consulting Engineers, Inc. for Corrosion Control Engineering Design Services for the Section 1D and 1E Pipeline and Arlington Outlet Valve Improvements Project

**FUNDING:** Bond Fund

#### **RECOMMENDATION:**

Management recommends approval of a contract **in an amount not-to-exceed \$272,725** with V&A Consulting Engineers, Inc. for corrosion control engineering design services for approximately 3 miles of the proposed Section 1D pipeline and adjacent existing Richland-Chambers and Cedar Creek pipelines, approximately 3,000 feet of the proposed Section 1E pipeline and adjacent Benbrook pipeline, and improvements at Arlington Outlet. These corrosion control engineering services include project management, preliminary design investigations, final design plans and specifications, and procurement phase services.

#### **DISCUSSION:**

The District has identified the need to advance engineering design for the newly proposed 108" pipeline for Sections 1D and 1E and Arlington Outlet improvements intended to enhance the capacity, reliability, and redundancy of the District's western water transmission system. To achieve the expected one-hundred-year service life of these new 108-inch steel pipelines, corrosion control measures need to be incorporated, including proper exterior coating and cathodic protection.

The District recommends a contract with V&A Consulting Engineers, Inc. to design the cathodic protection of the new Section 1D and 1E pipelines as well as planned improvements at Arlington Outlet including new valves and yard piping. Additionally, V&A Consulting Engineering will design cathodic protection of the existing Richland Chambers and Cedar Creek pipelines in areas that parallel the approximately three-mile Section 1D pipeline, and 3,000 feet of the Benbrook pipeline in areas that parallel Section 1E. The existing Richland-Chambers, Cedar Creek, and Benbrook pipelines that parallel the new Sections 1D & 1E will be heavily impacted by the construction of the new pipelines being installed within the same right of way. Since the existing cathodic protection system for these existing pipelines is over 25 years old, exceeding its original expected useful life, it is in the District's interest to renew the galvanic anode cathodic protection system at this same time.

The Request for Statement of Qualifications was solicited per statute (Texas Government Code Chapter 2254) and six submittals were received. Attached is the list of submitting firms that were evaluated. All six submittals were reviewed and evaluated, and the top three scoring firms were interviewed in person. V&A Consulting Engineers, Inc. was determined to be the most qualified firm to perform the design of this project.

V&A Consulting Engineers, Inc., is a prime, non-certified business. It has subcontracted portions of the contract resulting in an overall Diverse Business participation commitment of 18%.

These corrosion control engineering services will take place over the next two years with construction planned to begin in 2027.

This item was reviewed by the Construction and Operations Committee on September 12, 2024.

**Submitted By:**

Jason Gehrig, P.E.  
Infrastructure Engineering Director



## List of Submitting Firms

**RFSOQ 24-107**

**CORROSION CONTROL ENGINEERING SERVICES FOR CEDAR CREEK SECTION 2 REPLACEMENT (PHASE 2), CEDAR CREEK SECTION 4 REPLACEMENT, SECTION 1D & 1E PIPELINES AND ARLINGTON OUTLET IMPROVEMENTS**

<b>Due Date and Time:</b>	APRIL 22, 2024, AT 2:00 PM CT
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<b>Name of Firm</b>
A-Line Corrosion Services LLC
Hazen and Sawyer
HDR
Lockwood, Andrews, and Newman, Inc.
M/S Sietricon
V&A Consulting Engineers, Inc.

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### LIST OF SUBMITTING FIRMS

**RFSOQ 24-107 CORROSION CONTROL ENGINEERING SERVICES FOR CEDAR CREEK SECTION 2 REPLACEMENT (PHASE 2), CEDAR CREEK SECTION 4 REPLACEMENT, SECTION 1D & 1E PIPELINES AND ARLINGTON OUTLET IMPROVEMENTS**

V&A Project No. 24-0087

July 24, 2024

Courtney Jalbert  
Infrastructure Integrity Manager | Meteorologist  
Tarrant Regional Water District  
808 E. Northside Drive  
Fort Worth, TX 76102

**Subject:** Tarrant Regional Water District Contract 24-107 Cedar Creek Section 1D, 1E, and  
Arlington Outlet Cathodic Protection  
Proposal for Corrosion Engineering Services

Dear Mrs. Jalbert:

Thank you for requesting a proposal for the Cedar Creek Section 1D, 1E, and Arlington Outlet Cathodic Protection Project located near Fort Worth, TX. The project consists of designing new cathodic protection (CP) systems for the proposed pipelines between the Arlington Outlet and Rolling Hills, and the design of replacement CP systems for existing pipe between the same sites. Specifically, each Section includes the following:

- Section 1D
  - New CP galvanic anode CP (GACP) system for approximately 3 miles of proposed 108-inch polyurethane coated, mortar-lined spiral welded-steel pipe.
  - Replacement GACP system for existing Richland Chambers pipeline consisting of approximately 3 miles of 108-inch prestressed concrete cylinder pipe (PCCP)
  - Replacement GACP system for existing Cedar Creek pipeline consisting of approximately 3 miles of 84-inch PCCP
  - Isolation between 1D and existing PCCP parallel CP systems
- Section 1E
  - New CP galvanic anode CP (GACP) system for approximately 3,000 linear feet (LF) of proposed 108-inch polyurethane coated, mortar-lined spiral welded-steel pipe.
  - Replacement GACP system for existing Benbrook pipeline consisting of approximately 3,000 LF of 90-inch prestressed concrete cylinder pipe (PCCP)
  - Isolation between each parallel CP system
- Arlington Outlet
  - Replacement CP system for yard piping
  - Tie-in five proposed butterfly valves into the replacement CP system
  - Isolation between the site and Line J, Richland Chambers, and Cedar Creek Pipelines

V&A Consulting Engineers, Inc. (V&A) is prepared to conduct all necessary field testing and data gathering to prepare the design, and manage the construction phase associated with the CP systems. Per your request, the following is our proposal and detailed scope of work for the subject services:

## Scope of Work

### Task | Description

1. **Project Management:** Monitor and report project progress and changes, manage the quality of all work activities and project deliverables, and execute the project per the defined scope, schedule,

and budget. Submit monthly invoices and communicate project updates. This task includes the following project management work activities:

- a. Develop and/or implement a Quality Assurance and Quality Control (QA/QC) plan that addresses how the quality of information will be managed before incorporating into the design, and how each deliverable will be reviewed. Submit the plan at the beginning of the project. Only submit documents that have been reviewed according to the plan.
- b. Prepare a project schedule in Microsoft Project format. Submit a baseline of the schedule and update schedule at all phases and as often as necessary to be meaningful. At a minimum, the schedule should include: monthly meetings, 30% and 60% preliminary design, permitting, 90% and final design, procurement, construction, and startup. The schedule from the pipeline design consultant will be shared monthly to align critical milestones. Include two weeks for TRWD to review each deliverable.
- c. Utilize TRWD's project portal site. Share all documents through the project portal site including deliverables, reports, and other pertinent documents. All invoicing will be handled through the project site as well.
- d. Based on the fee and the proposed schedule, submit a spending plan that can be compared to the earned value and actual cost to indicate that the project is on track. The spending plan will also be given to TRWD's Finance Department to plan for cash flow.
- e. Submit a monthly status report with each invoice that indicates work completed and the value of the work completed based upon the fee estimate. Indicate upcoming tasks and include tasks that TRWD will need to perform to assist with project development.
- f. Coordinate and attend meetings as needed to interact with TRWD, the Pipeline Design Team, the Project Geotechnical Engineer, and other consultants for the duration of the project. At a minimum attend the kickoff meeting, design review meetings for each submittal, and monthly meetings, including consultant coordination meetings, as needed.
- g. Attend monthly or regularly scheduled progress meetings to review project status and upcoming milestones. Attend meetings and workshops for major milestones and decision points, including:
  - i. Project kickoff
  - ii. Design criteria review and confirmation
  - iii. Preliminary Engineering Report and 30% Design draft submittal
  - iv. Preliminary Engineering Report and 30% Design final submittal
  - v. 60%, 90%, and Issue for Bid (IFB)%final design submittals
  - vi. Construction Initiation
  - vii. Project Closeout
- h. Prepare and maintain an Opinion of Probable Construction Costs (OPCC). Prepare a conceptual OPCC during the scoping phase. Update the OPCC at each design milestone, and at other times that are appropriate during design, with corresponding quantities, prices, and contingencies. Identify the construction critical path.
- i. Project Closeout: Collect all outstanding inspection documents and information from the resident representative, vendors, and contractor and add to the project portal site. Assist TRWD personnel with application of proper metadata to all project documents. Record drawings to be provided in both pdf and drawing format, as well as GIS data records including lay sheets, survey data, SUE data etc. Conduct meeting with project stakeholders to review and document lessons learned and any contract changes.

2. **Design Criteria Confirmation:** TRWD will provide V&A with GIS data and any cathodic protection historical records and documents for the purposes of review and recommendation of the proposed project scope and pipeline replacement plan.
  - a. A Field Testing Plan will be provided and agreed upon for gathering all data needed to achieve the design criteria set. The field testing plan will include:
    - i. Current demand testing on all existing lines
    - ii. Depolarization testing on the Benbrook and Line J pipelines
    - iii. Soil resistivity testing for the proposed Section 1D and 1E pipelines
3. **Preliminary Design:** V&A will provide a Corrosion Control Preliminary Engineer Report (PER) that shall include their own investigation and evaluation. Preliminary design tasks will include the following:
  - a. Coordinate collection of soil samples obtained by the Project Geotechnical Engineering Consultant under the Pipeline Design contract.
  - b. Test and analyze soil samples for the following properties: resistivity, pH, electrical conductivity, chemical analysis, and any other tests as needed. Coordinate shipping of soil samples with the geotechnical engineer for the pipeline design team.
  - c. Coordinate with TRWD to conduct Wenner 4-pin testing. Measure soil resistivity using the Wenner four-electrode method along the proposed alignment. The resistivity testing will be conducted at 800- to 1,000-foot intervals to a depth of 20 feet below grade or the proposed pipeline depth, whichever is shallower.
  - d. Perform evaluation testing on existing Richland Chambers, Cedar Creek, and Benbrook pipelines that parallel the 1E/1D pipelines. Testing will include current demand testing, attenuation, isolation confirmation at City of Fort Worth WTP connection points, and AC stray current interference.
  - e. Perform evaluation testing of existing CP system at Arlington Outlet to determine extents of replacement.
  - f. Coordinate with the Pipeline Design Team and TRWD to implement the corrosion protection plan and monitoring that will be required for the new 1E/1D/AO Improvement pipelines, and the existing adjacent Richland Chambers and Cedar Creek PCCP pipelines. Corrosion protection plan should include protection during construction of all projects.
  - g. Review and provide recommendations for revisions to TRWD's cathodic protection technical specifications and standard details employed with the IPL project.
  - h. Prepare preliminary corrosion protection plan and drawings (30% level)
  - i. Foreign Utility Investigation: TRWD will provide all updated utility information near the project limits. V&A will use the information gathered by TRWD and the contracted pipeline design team to identify pipelines that could potentially impact the corrosion control system for the project pipeline. V&A will request further information about the cathodic protection systems on foreign pipelines through TRWD in order to provide proper mitigation during the design of the corrosion control system for the project pipeline. This task does not include field work for V&A.
  - j. Preparation of Preliminary Engineering Report. A draft electronic copy of the report will be submitted for review on the TRWD project portal. Comments will be incorporated, and a final electronic copy will be provided.
4. **Final Design:** Prepare plans and technical specifications associated with the CP system. Plans will be prepared in AutoCAD Civil 3D in an 11"x17" format. V&A will provide the pipeline designer the station numbering/GIS files so that the location of the CP beds and test stations are shown on the

same pipeline plan and profile sheets. Any required survey data will be provided by the pipeline design team. A two-week review period for TRWD will occur at every submittal. One round of comments will be addressed at each submittal.

- a. 60% Design Phase
    - i. Prepare 60% design plans and specifications utilizing TRWD's standard specifications and details. Deliverables will include electronic (.pdf) version which will include Corrosion Protection System Drawings, Technical Specification Table of Contents (TOC), and OPCC.
    - ii. Attend 60% workshop to review and discuss comments
  - b. Coordinate with pipeline designer to meet overall deliverable schedule90% Design Phase
    - i. Prepare 90% plans and specifications. Deliverables will include electronic (.pdf) version which will include Corrosion Protection System Drawings, Technical Specification Table of Contents (TOC), and OPCC.
    - ii. Address all 60% design review comments from TRWD
    - iii. Attend 90% workshop to review and discuss comments
    - iv. Coordinate with pipeline designer to meet overall deliverable schedule
  - c. Final Not-for-Construction (NFC) Phase
    - i. Prepare Final NFC plans and specifications. Deliverables will include electronic (.pdf) version which will include Corrosion Protection System Drawings, Technical Specification Table of Contents (TOC), and OPCC.
    - ii. Address all 90% design review comments from TRWD
    - iii. Coordinate with pipeline designer to meet overall deliverable schedule
  - d. Final Bidding Documents
    - i. Prepare final bidding documents. Deliverables will include electronic (.pdf) version which will include Corrosion Protection System Drawings, Technical Specification Table of Contents (TOC), and OPCC.
    - ii. Address any remaining review comments from Final NFC review.
    - iii. Coordinate with pipeline designer to meet overall deliverable schedule
5. **Procurement Phase Services:** Bidding assistance includes preparing conformed documents and responding to questions from potential bidders for the CP system.
- a. Assist TRWD in answering cathodic protection-related questions and, as necessary, issue addenda to clarify the design documents.
  - b. Attend procurement evaluation conference. Review submitted proposals for technical input and project approach and provide input to advise evaluation team in their review of proposals in regards to CP.
  - c. Prepare a "Conformed" submittal incorporating the changes made during the procurement phase for the CP plans and specifications.

### Assumptions

The following is a list of additional assumptions used to develop V&A's scope of work.

- V&A will submit monthly invoices in electronic format in electronic format via the designated client portal.



- Design documents will utilize TRWD's standard specifications and details. Any revisions will be agreed upon between TRWD and V&A.
- The schedule of deliverables will be dependent on the overall pipeline design contracts.

### Exclusions and Limitations

The following items, unless otherwise indicated, are not included in the scope of work:

- Traffic Control Plans and Permits
- Traffic Control Measures, including but not limited to sign boards, cones, and flaggers
- Project Specific Health and Safety Plan
- Encroachment Permits
- Permitting
- Notification
- Bonds
- Shutdown, Dewatering, and Cleaning of Structures
- Excavations
- Structure Access, including but not limited to ladders, scaffolding, and cranes
- Confined Space Entry
- Supplied Air

## Fee Proposal

V&A proposes to complete this work on a cost plus not to exceed **\$272,725** basis with terms of Net 30 days. This fee is valid for 90 days from the date of this proposal (after which the total cost may be adjusted to reflect annual updates to the attached Fee Schedule). The scope of work was developed as a result of our discussions and represents our mutual understanding.

If unforeseen circumstances should arise which indicate that more work is required, V&A will provide a written estimate of additional required work and cost. The attached Fee Schedule (subject to annual adjustments) will serve as the basis for developing future cost estimates. V&A will not proceed with work beyond the not-to-exceed figure without written authorization from your office.

We are prepared to begin work on your project upon receiving written approval, a notice to proceed (NTP), or a purchase order from your office.

On behalf of our staff and myself, I would like to thank you for the opportunity to be of service to you, and TRWD. We look forward to working with you.

Sincerely,

V&A Consulting Engineers, Inc.



Cory R. Dow, P.E.  
Regional Manager  
*Texas Registered Engineering Firm F-9154*

Accepted: \_\_\_\_\_  
Tarrant Regional Water District

Date: \_\_\_\_\_

### Summary of Cost per Task

Task	Amount
1. Project Management	\$48,959
2. Design Criteria Confirmation	\$8,822
3. Preliminary Design	\$58,896
4. Final Design	\$65,608
5. Procurement Phase Services	\$16,066
<b>Subtotal</b>	<b>\$198,351</b>
Subconsultant Fees	
• Farwest Corrosion Control Company	\$13,674
• Proghorn Flats Consulting	\$34,200
• SGH	\$26,500
<b>Total:</b>	<b>\$272,725</b>

## TARRANT REGIONAL WATER DISTRICT

### AGENDA ITEM 11

**DATE:** September 17, 2024

**SUBJECT:** Consider Approval of a Pre-Purchase of HVAC Equipment from Texas Air Systems for Benbrook Lake Pump Station Electrical Room Cooling Improvements

**FUNDING:** Bond Fund

#### **RECOMMENDATION:**

Management recommends approval for the pre-purchase of HVAC equipment **in an amount not-to-exceed \$215,572** from Texas Air Systems for Benbrook Lake Pump Station Electrical Room Cooling Improvements.

#### **DISCUSSION:**

The Benbrook Lake Pump Station is a critical component of the District's water delivery system. The existing cooling infrastructure for the pump station electrical and server rooms has experienced issues since 2011. In 2022 and 2023, the lake water-cooled air conditioning units suffered compressor failures during periods of critical customer demand. The existing cooling units are old, resulting in limited parts availability and higher maintenance costs. In addition, the reliance of the existing cooling system on lake water for heat exchange leads to biofouling of system components during summer operation requiring extensive ongoing maintenance to keep functional. Due to its age, the cooling system is near the end of its useful life.

Azcarate & Associates Consulting Engineers, LLC is currently under contract to design cooling improvements for the Benbrook Lake Pump Station electrical room. In addition to replacing the deficient existing HVAC equipment with new equipment requiring less maintenance, the entire cooling system is being updated for more redundancy and operational efficiency. Due to space constraints in the pump station, platforms are being designed to attach to the face of the building where the air conditioning units will be placed as part of a future construction project.

To reduce the cost and complexity of the electrical room cooling system, District staff recommends that the Board approve the pre-purchase of the HVAC equipment. Purchasing the HVAC equipment in advance of the construction contract reduces the time to achieve the necessary cooling improvements while also procuring equipment compatible with current refrigerants frequently in use prior to upcoming regulatory changes.

Texas Air Systems is the authorized rep for AAON. This equipment purchase will be made

utilizing The Interlocal Purchasing System (TIPS) cooperative purchasing contract 230104. Texas Government Code 791 enables the District to participate in this program.

Texas Air Systems is not a certified diverse business. There are no other subcontracting opportunities.

This item was reviewed by the Construction and Operations Committee on September 12, 2024.

**Submitted By:**

Jason Gehrig  
Infrastructure Engineering Director

**TARRANT REGIONAL WATER DISTRICT**

**AGENDA ITEM 13**

**DATE:** September 17, 2024

**SUBJECT:** Executive Session

**FUNDING:** N/A

**RECOMMENDATION:**

Section 551.071 of the Texas Government Code, for Private Consultation with its Attorney about Pending or Contemplated Litigation or on a Matter in which the Duty of the Attorney to the Governmental Body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas Clearly Conflicts with this Chapter; and

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

Section 551.074 Regarding Personnel Matters Related to the Annual General Manager Performance Review

**DISCUSSION:**

- Pending litigation
- Real property issues
- Personnel matters

**Submitted By:**

Stephen Tatum  
General Counsel

**TARRANT REGIONAL WATER DISTRICT**

**AGENDA ITEM 14**

**DATE:** September 17, 2024

**SUBJECT: Consider Approval of Authorization to Acquire Real Property Interests by Purchase for the Cedar Creek Pipeline Rehab Project**

**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 15, 2024 at 9:00 AM