



Regional. Reliable. Everyday.

September 28, 2022

Mr. Mike Castro
City Manager
City of Murphy
206 North Murphy Road
Murphy, Texas 75094

RE: 2022-23 ANNUAL BUDGET CHARGES

Dear Mr. Castro:

The 2022-23 Annual Budget was approved by the NTMWD Board of Directors at the September 2022 Board Meeting. The 2022-23 Annual Budget ensures NTMWD remains committed to our core mission of providing high quality and dependable water, wastewater and solid waste services in a cost efficient manner.

The water rate is being adjusted from \$3.04 to \$3.44 per 1,000 gallons and the excess water rate is being adjusted from \$0.65 to \$0.86 per 1,000 gallons due to higher chemical and electric power costs. Additional debt service costs for funding essential capital projects is also contributing to the overall budget increase. The City's Minimum Annual Demand is 1,661,494,000 gallons for 2022-23. Enclosed are the 2022-23 Budget Summary and Billing Schedules for the following charges:

- Regional Water System \$ 5,715,539.36
- Muddy Creek WWTP \$ 2,318,960.00
- Muddy Creek Interceptor \$ 119,295.00

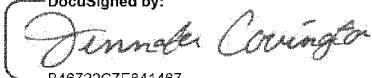
NTMWD staff continues to seek efficiencies and innovations to manage the costs of the capital program, operations and maintenance, and by working with the cities served to identify and implement effective and efficient solutions. Adequate funding and resources are required to deliver these projects on time and within budget as well as to integrate into existing system operations. The approved FY23 Budget addresses these challenges and responsibilities to continue providing safe, reliable water, wastewater and solid waste services for the millions of North Texans counting on us today and in the future.

Also enclosed is the FY23 Budget and Rates Fact Sheet. This summary provides an overview of the FY23 Budget and System Expenditures, key details and projects by services and highlights of program efficiencies and managing costs.

Mr. Mike Castro
September 28, 2022
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At your convenience, you may visit our website, www.ntmwd.com, for additional Financial Transparency information and to view past committee meeting presentations. Should you have any questions or need additional information, please contact Jeanne Chipperfield, Deputy Director - Administrative Services, by email at jchipperfield@ntmwd.com.

Sincerely,

DocuSigned by:

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JENNAFER P. COVINGTON
Executive Director

JPC/JC/EAF/DTF/kar
Enclosures

cc: Karen Montgomery, Finance Director
Budget@MurphyTX.org

REGIONAL WATER SYSTEM

NORTH TEXAS MUNICIPAL WATER DISTRICT

Revenues and Expenses	2020-21	2021-22	2021-22	2022-23	Variance \$	Variance %
	Actual	Original Budget	Amended Budget	Proposed Budget	To Original Budget	To Original Budget
Revenues						
Water Sales:						
Member Sales	\$ 290,090,413	\$ 298,350,342	\$ 300,903,989	\$ 344,963,325	\$ 46,612,983	15.62%
Customer Sales	66,007,189	67,217,086	73,343,086	84,951,336	17,734,249	26.38%
Retail Customer Sales	23,237	21,000	16,000	16,000	(5,000)	-23.81%
Raw Water Sales	1,865	990	2,105	1,490	500	50.51%
Total Water Sales	\$ 356,122,705	\$ 365,589,418	\$ 374,265,179	\$ 429,932,151	\$ 64,342,733	17.60%
Other Revenues:						
Tfr - Prior Year Recovery	\$ -	\$ -	\$ 231,030	\$ -	\$ -	0.00%
Other	8,574,557	331,547	402,265	541,474	209,927	63.32%
Total Other Revenues	\$ 14,991,557	\$ 331,547	\$ 633,295	\$ 541,474	\$ 209,927	63.32%
Interest Income	44,676	51,540	177,345	177,345	125,805	244.09%
Tfr from Rate Stabilization	2,550,000	3,000,000	7,000,000	-	(3,000,000)	-100.00%
Total Revenues	\$ 373,708,938	\$ 368,972,505	\$ 382,075,820	\$ 430,650,970	\$ 61,678,465	16.72%
Expenses						
Personnel:						
Salaries	\$ 8,222,459	\$ 9,873,670	\$ 9,307,275	\$ 11,496,290	\$ 1,622,620	16.43%
Other	4,276,084	4,460,920	4,378,505	5,540,155	1,079,235	24.19%
Total Personnel	\$ 12,498,543	\$ 14,334,590	\$ 13,685,780	\$ 17,036,445	\$ 2,701,855	18.85%
Supplies:						
Fuel	\$ 68,948	\$ 85,870	\$ 118,370	\$ 139,235	\$ 53,365	62.15%
Chemicals	36,031,628	49,768,805	63,606,270	73,965,125	24,196,320	48.62%
Other	3,738,858	3,506,800	4,668,700	4,988,995	1,482,195	42.27%
Total Supplies	\$ 39,839,433	\$ 53,361,475	\$ 68,393,340	\$ 79,093,355	\$ 25,731,880	48.22%
Services:						
Consulting	\$ 2,860,245	\$ 3,594,500	\$ 3,254,930	\$ 3,349,000	\$ (245,500)	-6.83%
PUC	6,600,000	-	-	-	-	0.00%
Insurance	950,829	1,704,680	1,311,180	2,270,245	565,565	33.18%
Landfill Service Fees	715	-	-	-	-	0.00%
Maintenance	12,239,838	13,431,710	13,524,748	17,167,695	3,735,985	27.81%
Power	34,585,683	21,698,100	21,753,100	26,440,355	4,742,255	21.86%
Shared Services	40,188,481	40,914,885	40,930,885	44,546,425	3,631,540	8.88%
Water Purchases	4,914,063	5,995,355	5,382,265	6,472,005	476,650	7.95%
Other	6,621,987	5,978,965	5,840,217	4,401,300	(1,577,665)	-26.39%
Total Services	\$ 108,961,841	\$ 93,318,195	\$ 91,997,325	\$ 104,647,025	\$ 11,328,830	12.14%
Capital Outlay	\$ 1,331,035	\$ 1,655,500	\$ 1,325,480	\$ 3,014,610	\$ 1,359,110	82.10%
Escrow	\$ 50,000	\$ 50,000	\$ 50,000	\$ 88,070	\$ 38,070	76.14%
Capital Improvement Fund	\$ 36,200,000	\$ 15,000,000	\$ 15,000,000	\$ 19,100,000	\$ 4,100,000	27.33%
Contingency	\$ -	\$ 1,200,000	\$ -	\$ 4,000,000	\$ 2,800,000	233.33%
Debt Service	\$ 173,962,341	\$ 190,597,795	\$ 188,197,795	\$ 196,809,345	\$ 6,211,550	3.26%
Total Expenses	\$ 372,843,193	\$ 369,517,555	\$ 378,649,720	\$ 423,788,850	\$ 54,271,295	14.69%
Fund Bal. Incr. to 90 Days	-	-	3,400,000	6,700,000	6,700,000	0.00%
Net Revenues	\$ 865,745	\$ (545,050)	\$ 26,100	\$ 162,120	\$ 707,170	

REGIONAL WATER SYSTEM

NORTH TEXAS MUNICIPAL WATER DISTRICT

2022-23 Billing Schedule - Customers

	Ables Springs WSC	Bear Creek SUD	BHP Water Supply Corp	Bonham	Caddo Basin SUD	Cash SUD	College Mound SUD
MIN. ANNUAL DEMAND (1,000 Gal)	110,037	386,695	170,892	640,000	493,610	360,572	78,066
October	\$ 31,543.28	\$ 110,847.80	\$ 48,989.48	\$ 180,800.00	\$ 141,496.40	\$ 103,363.68	\$ 22,378.04
November	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
December	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
January	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
February	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
March	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
April	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
May	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
June	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
July	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
August	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
September	31,544.00	110,853.00	48,989.00	180,800.00	141,502.00	103,364.00	22,379.00
Total	\$ 378,527.28	\$ 1,330,230.80	\$ 587,868.48	\$ 2,169,600.00	\$ 1,698,018.40	\$ 1,240,367.68	\$ 268,547.04

	Copeville SUD	East Fork SUD	Fairview	Fate #1	Fate #2	Forney Lake WSC	Gastonia-Scurry SUD
MIN. ANNUAL DEMAND (1,000 Gal)	134,140	697,461	964,308	279,932	645,054	632,848	110,490
October	\$ 38,458.60	\$ 199,936.84	\$ 276,434.52	\$ 80,249.08	\$ 184,920.76	\$ 181,421.12	\$ 31,671.60
November	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
December	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
January	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
February	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
March	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
April	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
May	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
June	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
July	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
August	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
September	38,453.00	199,939.00	276,435.00	80,247.00	184,915.00	181,416.00	31,674.00
Total	\$ 461,441.60	\$ 2,399,265.84	\$ 3,317,219.52	\$ 962,966.08	\$ 2,218,985.76	\$ 2,176,997.12	\$ 380,085.60

REGIONAL WATER SYSTEM

NORTH TEXAS MUNICIPAL WATER DISTRICT

2022-23 Billing Schedule - Customers (continued)

	GTUA	Josephine	Kaufman	Kaufman 4-1	Little Elm	Lucas	Melissa
MIN. ANNUAL DEMAND (1,000 Gal)	1,224,927	211,535	459,989	555,695	1,804,752	701,486	350,960
October	\$ 351,142.88	\$ 60,640.40	\$ 131,858.16	\$ 159,301.80	\$ 517,364.88	\$ 201,088.84	\$ 100,603.40
November	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
December	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
January	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
February	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
March	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
April	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
May	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
June	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
July	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
August	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
September	351,146.00	60,640.00	131,864.00	159,299.00	517,362.00	201,093.00	100,609.00
Total	\$ 4,213,748.88	\$ 727,680.40	\$ 1,582,362.16	\$ 1,911,590.80	\$ 6,208,346.88	\$ 2,413,111.84	\$ 1,207,302.40

	Milligan WSC	Mt Zion WSC	Murphy	Nevada #1	Nevada #2	North Collin SUD	Parker
MIN. ANNUAL DEMAND (1,000 Gal)	149,894	159,302	1,661,494	76,886	70,985	355,962	633,119
October	\$ 42,965.36	\$ 45,661.88	\$ 476,294.36	\$ 22,036.84	\$ 20,349.40	\$ 102,047.28	\$ 181,495.36
November	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
December	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
January	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
February	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
March	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
April	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
May	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
June	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
July	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
August	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
September	42,970.00	45,667.00	476,295.00	22,041.00	20,349.00	102,042.00	181,494.00
Total	\$ 515,635.36	\$ 547,998.88	\$ 5,715,539.36	\$ 264,487.84	\$ 244,188.40	\$ 1,224,509.28	\$ 2,177,929.36

REGIONAL WATER SYSTEM

NORTH TEXAS MUNICIPAL WATER DISTRICT

2022-23 Billing Schedule - Customers (continued)

	Prosper	Rose Hill SUD	Rowlett	Sachse	Seis Lagos UD	Sunnyvale	Terrell
MIN. ANNUAL DEMAND (1,000 Gal)	3,085,412	143,271	3,192,039	1,332,153	165,598	783,784	1,400,000
October	\$ 884,482.28	\$ 41,071.24	\$ 915,053.16	\$ 381,882.32	\$ 47,476.12	\$ 224,681.96	\$ 401,337.00
November	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
December	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
January	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
February	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
March	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
April	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
May	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
June	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
July	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
August	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
September	884,485.00	41,071.00	915,051.00	381,884.00	47,471.00	224,685.00	401,333.00
Total	\$ 10,613,817.28	\$ 492,852.24	\$ 10,980,614.16	\$ 4,582,606.32	\$ 569,657.12	\$ 2,696,216.96	\$ 4,816,000.00

	Wylie NE #1	Wylie NE #2	Total
MIN. ANNUAL DEMAND (1,000 Gal)	307,630	173,480	24,704,458
October	\$ 88,190.20	\$ 49,730.20	\$ 7,079,266.52
November	88,187.00	49,731.00	7,079,279.00
December	88,187.00	49,731.00	7,079,279.00
January	88,187.00	49,731.00	7,079,279.00
February	88,187.00	49,731.00	7,079,279.00
March	88,187.00	49,731.00	7,079,279.00
April	88,187.00	49,731.00	7,079,279.00
May	88,187.00	49,731.00	7,079,279.00
June	88,187.00	49,731.00	7,079,279.00
July	88,187.00	49,731.00	7,079,279.00
August	88,187.00	49,731.00	7,079,279.00
September	88,187.00	49,731.00	7,079,279.00
Total	\$ 1,058,247.20	\$ 596,771.20	\$ 84,951,335.52

Muddy Creek Wastewater Treatment Plant

Revenues and Expenses	2020-21	2021-22	2021-22	2022-23	Variance \$	Variance %
	Actual	Original Budget	Amended Budget	Proposed Budget	To Original Budget	To Original Budget
Revenues						
Sewer Sales:						
Sewer Facilities - Murphy	\$ 1,834,456	\$ 2,069,300	\$ 1,913,477	\$ 2,318,960	\$ 249,660	12.06%
Sewer Facilities - Wylie	5,488,182	6,096,830	6,171,233	7,460,280	1,363,450	22.36%
Total Sewer Sales	\$ 7,322,638	\$ 8,166,130	\$ 8,084,710	\$ 9,779,240	\$ 1,613,110	19.75%
Total Other Revenues	\$ 369,251	\$ 344,830	\$ 344,830	\$ 360,225	\$ 15,395	4.46%
Interest Income	\$ 798	\$ 940	\$ 5,165	\$ 5,165	\$ 4,225	449.47%
Total Revenues	\$ 7,692,687	\$ 8,511,900	\$ 8,434,705	\$ 10,144,630	\$ 1,632,730	19.18%
Expenses						
Personnel:						
Salaries	\$ 1,069,757	\$ 1,171,335	\$ 1,154,855	\$ 1,360,415	\$ 189,080	16.14%
Other	503,024	548,475	560,035	628,795	80,320	14.64%
Total Personnel	\$ 1,572,781	\$ 1,719,810	\$ 1,714,890	\$ 1,989,210	\$ 269,400	15.66%
Supplies:						
Fuel	\$ 3,433	\$ 6,610	\$ 6,610	\$ 6,610	\$ -	0.00%
Chemicals	207,212	266,505	266,505	352,810	86,305	32.38%
Other	305,346	488,575	455,580	493,405	4,830	0.99%
Total Supplies	\$ 515,991	\$ 761,690	\$ 728,695	\$ 852,825	\$ 91,135	11.96%
Services:						
Consulting	\$ 13,080	\$ 17,750	\$ 17,750	\$ 6,000	\$ (11,750)	-66.20%
Insurance	22,623	28,775	28,875	40,460	11,685	40.61%
Landfill Service Fees	263,219	279,460	266,960	301,035	21,575	7.72%
Maintenance	113,065	117,600	119,600	117,580	(20)	-0.02%
Power	814,827	275,000	328,000	282,000	7,000	2.55%
Shared Services	991,460	1,169,485	1,129,985	1,401,410	231,925	19.83%
Other	405,621	412,275	371,775	599,370	187,095	45.38%
Total Services	\$ 2,623,896	\$ 2,300,345	\$ 2,262,945	\$ 2,747,855	\$ 447,510	19.45%
Capital Outlay	\$ 260,189	\$ 394,000	\$ 447,000	\$ 188,000	\$ (206,000)	-52.28%
Escrow	\$ -	\$ -	\$ 70,395	\$ -	\$ -	0.00%
Debt Service	\$ 2,719,830	\$ 3,336,055	\$ 3,210,780	\$ 4,366,740	\$ 1,030,685	30.90%
Total Expenses	\$ 7,692,687	\$ 8,511,900	\$ 8,434,705	\$ 10,144,630	\$ 1,632,730	19.18%
Net Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Muddy Creek Wastewater Treatment Plant

Member City Charges	2020-21		2021-22		2022-23	
	Actual	Original Budget	Amended Budget	Proposed Budget		
Murphy	\$ 1,834,456	\$ 2,069,300	\$ 1,913,477	\$ 2,318,960		
Wylie	5,488,182	6,096,830	6,171,233	7,460,280		
Total	\$ 7,322,638	\$ 8,166,130	\$ 8,084,710	\$ 9,779,240		

Annual Flow (1,000):

Murphy	713,090	716,554	25.531%	710,634	23.929%	730,933	23.929%
Wylie	2,108,060	2,090,067	74.469%	2,259,139	76.071%	2,323,670	76.071%
Total	2,821,150	2,806,620	100.000%	2,969,773	100.000%	3,054,603	100.000%

Muddy Creek Wastewater Treatment Plant

2022-23 Billing Schedule

<u>Month</u>	<u>Murphy</u>	<u>Wylie</u>	<u>Total</u>
October	\$ 386,490	\$ 1,243,380	\$ 1,629,870
November	193,247	621,690	814,937
December	193,247	621,690	814,937
January	193,247	621,690	814,937
February	193,247	621,690	814,937
March	193,247	621,690	814,937
April	193,247	621,690	814,937
May	193,247	621,690	814,937
June	193,247	621,690	814,937
July	193,247	621,690	814,937
August	193,247	621,690	814,937
Total	\$ 2,318,960	\$ 7,460,280	\$ 9,779,240

Muddy Creek Interceptor

Revenues and Expenses	2020-21	2021-22	2021-22	2022-23	Variance \$	Variance %
	Actual	Original Budget	Amended Budget	Proposed Budget	To Original Budget	To Original Budget
Revenues						
Sewer Sales:						
Interceptor Facilities - Murphy	\$ 186,805	\$ 167,868	\$ 167,831	\$ 119,295	\$ (48,573)	-28.94%
Interceptor Facilities - Wylie	290,040	260,637	260,579	185,220	(75,417)	
Total Sewer Sales	\$ 476,845	\$ 428,505	\$ 428,410	\$ 304,515	\$ (123,990)	-28.94%
Total Other Revenues	\$ 242,146	\$ -	\$ -	\$ -	\$ -	0.00%
Interest Income	\$ 56	\$ 70	\$ 210	\$ 210	\$ 140	200.00%
Total Revenues	\$ 719,048	\$ 428,575	\$ 428,620	\$ 304,725	\$ (123,850)	-28.90%
Expenses						
Personnel:						
Salaries	\$ 8	\$ 780	\$ 695	\$ 840	\$ 60	7.69%
Other	1	175	155	200	25	14.29%
Total Personnel	\$ 9	\$ 955	\$ 850	\$ 1,040	\$ 85	8.90%
Supplies:						
Chemicals	\$ 43,952	\$ 54,490	\$ 54,490	\$ 55,690	\$ 1,200	2.20%
Other	1,856	6,500	6,500	6,500	-	0.00%
Total Supplies	\$ 45,808	\$ 60,990	\$ 60,990	\$ 62,190	\$ 1,200	1.97%
Services:						
Consulting	\$ 31,099	\$ -	\$ -	\$ -	\$ -	0.00%
Maintenance	146,073	27,500	4,850	27,500	-	0.00%
Power	227	250	650	500	250	100.00%
Shared Services	19,271	15,055	18,455	13,900	(1,155)	-7.67%
Other	10,700	12,435	12,435	13,905	1,470	11.82%
Total Services	\$ 207,371	\$ 55,240	\$ 36,390	\$ 55,805	\$ 565	1.02%
Escrow	\$ 215,000	\$ 50,000	\$ 69,000	\$ 11,000	\$ (39,000)	-78.00%
Debt Service	\$ 250,860	\$ 261,390	\$ 261,390	\$ 174,690	\$ (86,700)	-33.17%
Total Expenses	\$ 719,048	\$ 428,575	\$ 428,620	\$ 304,725	\$ (123,850)	-28.90%
Net Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Muddy Creek Interceptor

Member City Charges	2020-21		2021-22		2021-22		2022-23		
	Actual		Original Budget		Amended Budget		Proposed Budget		
Murphy	\$	186,805	\$	167,868	\$	167,831	\$	119,295	
Wylie		290,040		260,637		260,579		185,220	
Total	\$	476,845	\$	428,505	\$	428,410	\$	304,515	
Annual Flow (1,000)									
Murphy		1,387,000		1,387,000	39.175%	1,387,000	39.175%	1,387,000	39.175%
Wylie		2,153,500		2,153,500	60.825%	2,153,500	60.825%	2,153,500	60.825%
Total		3,540,500		3,540,500	100.000%	3,540,500	100.000%	3,540,500	100.000%

Muddy Creek Interceptor

2022-23 Billing Schedule

<u>Month</u>	<u>Murphy</u>	<u>Wylie</u>	<u>Total</u>
October	\$ 25,425	\$ 39,490	\$ 64,915
November	12,715	19,745	32,460
December	12,715	19,745	32,460
January	12,715	19,745	32,460
February	12,715	19,745	32,460
March	12,715	19,745	32,460
April	12,715	19,745	32,460
May	4,395	6,815	11,210
June	4,395	6,815	11,210
July	4,395	6,815	11,210
August	4,395	6,815	11,210
Total	\$ 119,295	\$ 185,220	\$ 304,515

*** Debt Service collected only Oct - April. The remaining Debt Service requirements will be paid from the existing fund balances in the Interest and Sinking Fund.**



FY23 Approved Budget and Rates Fact Sheet

North Texas Municipal Water District

Administration Building
501 East Brown St.
P.O. Box 2408
Wylie, TX 75098

972.442.5405
www.ntmwd.com

FAST FACTS:

80 COMMUNITIES
SERVED ACROSS

2,200 SQUARE MILES
IN 10 COUNTIES

WITH A POPULATION OF
OF OVER 2 MILLION

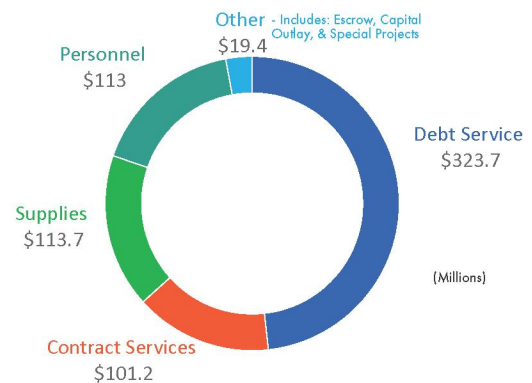


During Fiscal Year 2022, the District continued to navigate a challenging economic environment including supply chain issues and growing inflation when global events worsened the situation. Inflation began to soar to levels not seen in over 40 years with fuel and chemicals seeing some of the largest increases. The District implemented several new tactics to mitigate the unprecedented increases due to inflation, and remains in a sound financial condition. The NTMWD Board of Directors and Staff worked diligently to meet the District's contractual obligation to the participating cities and utilities with reasonable costs in all systems while maintaining our commitment to protect public health and the environment.

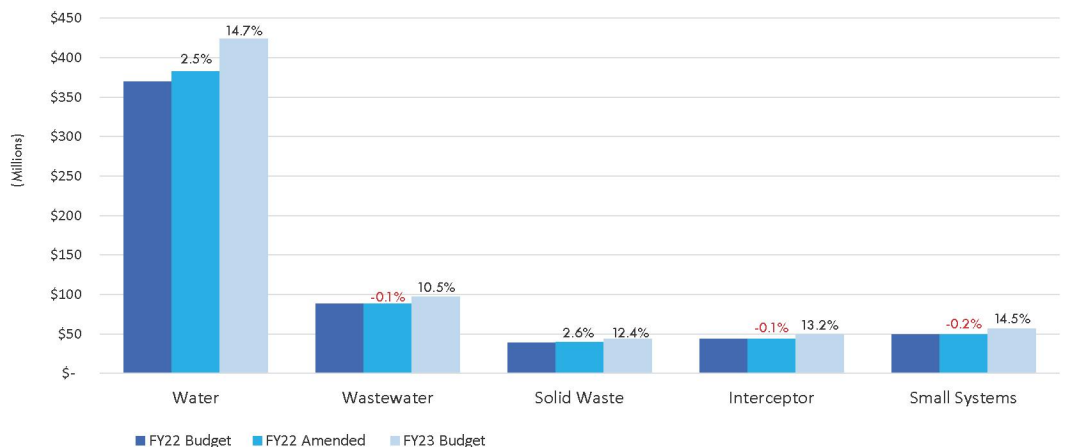
This summary provides an overview of the FY23 Budget and System Expenditures, some key details and projects by service, and some of the ways we are managing costs.

FY23 Budget

All Systems Expenditures
\$671M



Expenditures By System



Major adjustments necessary in the FY23 budget include the financial impacts to address the People, Product and Planning costs driving the FY23 Annual All Systems Budget of \$671,396,165, to provide a responsible budget to sustain reliable water, wastewater, and solid waste services.

Key factors and challenges addressed in the budget include:

People

To meet our region's water and wastewater needs, new operating facilities are currently under construction such as Bois d'Arc Lake, the Leonard Water Treatment Plant and the Sister Grove Regional Water Resource Recovery Facility (RWRRF). The majority of new personnel requests in FY23 address the continuing growth in our service area including 16 new positions to begin staffing the Sister Grove RWRRF. The current national job market and the need to recruit and retain professional staff to operate the systems have forced the District to address labor shortages, higher turnover rates with compensation adjustments to help employees with inflationary cost of living.

Product

During FY22, the District was already navigating a challenging economic environment including supply chain issues and growing inflation when Russia invaded Ukraine and exacerbated the situation. Inflation soared to the highest levels in 40 years with fuel and chemicals seeing some of the largest increases with extreme volatility. Approximately half of the proposed adjustment for the Regional Water System wholesale rate is due to increased chemical costs. To mitigate this unprecedented increase in chemicals, the District conducted out-of-cycle rebids for many of the chemicals needed to meet the mission. Under new contract terms the District shifted from a historically fixed unit price to a contract that adjusts pricing quarterly based on appropriate indices.

Planning

Continued growth in the region has increased demands for services, and that combined with unstable construction costs has impacted the capital improvement program budget. Other major increases to the FY23 budget include funding approximately \$980 million of capital projects District-wide such as the McKinney Delivery Point No. 3 to No. 4 Pipeline (\$101M), the South Mesquite RWWTP Peak Flow Management and Expansion (\$151M), and the new Fleet Maintenance Facility (\$12M). With 55,000 new residents moving to our service area every year and the District serving two of the top 10 fastest growing counties in the country, there is an ongoing need to address the regulatory requirements, aging infrastructure and growth needs of the District.

As the nation experiences increased inflation, NTMWD has seen significantly increased construction project costs. In anticipation of continued higher pricing, we have adjusted many of our construction project budgets by approximately 18%. We have also adjusted our debt service budgets to plan for continued rising interest rates.

Despite these challenges of costs associated with People, Product and Planning for the District, NTMWD remains in a sound financial condition. The Board's goal of meeting the needs of our participating cities within state and federal laws while protecting the environment continues to be accomplished with reasonable cost in all systems.

FY23 MEMBER CITY PROPOSED WHOLESALE WATER RATE			
	FY22 Budget	FY23 Proposed	Change
Variable O&M <small>(i.e., chemicals, power, etc.)</small>	\$ 0.60	\$ 0.81	\$ 0.21
Fixed O&M <small>(i.e., personnel, maintenance, etc.)</small>	\$ 0.73	\$ 0.85	\$ 0.12
Capital	\$ 1.66	\$ 1.73	\$ 0.07
Total (per 1,000 gal.)	\$ 2.99*	\$ 3.39*	\$ 0.40





*Customer Cities/Entities rate + \$.05

WATER SYSTEM

<p>Who Benefits</p> <p style="text-align: center;">Allen Farmersville Forney Frisco Garland McKinney Mesquite Plano Princeton Richardson Rockwall Royse City Wylie</p> <p style="font-size: small; text-align: center;">plus 34 Customer Cities/Entities</p>	<p>Major Projects Needed</p> <ul style="list-style-type: none"> • McKinney Delivery Point No. 3 to No. 4 Pipeline (\$101M) • Wylie Water Treatment Plant (WTP) Conversion to Biologically Active Filtration (\$82M) • Northeast McKinney Pump Station (\$60M) • Future Water Supply Project (\$58M) • Systemwide Meter Vault Improvements Phases IV and V (\$47M) • North Garland System Ground Storage Tank (\$44M) • Waterline Relocations for TXDOT Road Improvements (\$34M) • 36" Plano Westside Pipeline (to Plano No. 3 and Richardson No. 2) (\$21M) • Wylie to Rockwall Pipeline Relocation, Phase II (\$19M) 	<p>Staff Required*</p> <p style="text-align: center;">146 ↑ 10</p>	<p>FY23 Budget</p>
<p>\$ 215.9M Capital/Debt</p> <p>\$ 207.9M O&M</p> <p>\$ 423.8M Total</p> <p>Wholesale water rate:</p> <p style="text-align: center;">13.38 % increase \$3.39 per 1,000 gallons</p>			

*does not include support staff





REGIONAL WASTEWATER SYSTEM** (treatment)

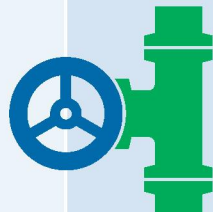
 Who Benefits	 Major Projects Needed	 Staff Required*	 FY23 Budget
Allen Forney Frisco Heath McKinney Melissa Mesquite Plano Princeton Prosper Richardson Rockwall Seagoville <small>plus 4 Customer Cities/Entities</small>	<ul style="list-style-type: none"> • South Mesquite RWWTP Peak Flow Management & Expansion (\$151M) • Rowlett Creek RWWTP Peak Flow Management Phase II (\$46M) • Rowlett Creek RWWTP Operations Building Construction (\$8M) • Floyd Branch RWWTP Peak Flow and UV Improvements (\$5M) • Lower East Fork RWRRF Land (\$15M) 	160 ↑ 15	\$ 41.6M Capital/Debt \$ 55.7M O&M \$ 97.4M Total Estimated wholesale Member wastewater cost per 1,000 gallons: ↑ 8.44%







**Does not include small system costs, projects and staffing as those vary by participants of each local system.

UPPER EAST FORK INTERCEPTOR SYSTEM** (wastewater collection system)

 Who Benefits	 Major Projects Needed	 Staff Required*	 FY23 Budget
Allen Frisco McKinney Melissa Plano Princeton Prosper Richardson <small>plus 4 Customer Cities/Entities</small>	<ul style="list-style-type: none"> • McKinney East Side Gravity Extension Improvements (\$23M) • US Highway 380 Lift Station and Force Main Design (\$8M) 	23 no change	\$ 30.3M Capital/Debt \$ 19.2M O&M \$ 49.5M Total Estimated wholesale Member wastewater cost per 1,000 gallons: ↑ 12.1%



SOLID WASTE SYSTEM

 Who Benefits	 Major Projects Needed	 Staff Required*	 FY23 Budget
Allen Frisco McKinney Plano Richardson <small>and other third party customers in proximity to our facilities</small>	<ul style="list-style-type: none"> • Fleet Maintenance Facility (\$12M) • Parkway Transfer Station Conversion to Top Load (\$8M) • 121 Regional Disposal Facility Sectors 6B and 6C Mass Excavation (\$5M) • 121 RDF Heavy Equipment Shop Addition (\$5M) • North Transfer Station Property and Design (\$4M) • 121 RDF South Slope Closure (\$4.1M) • 121 RDF Cell 6A Construction (\$1.1 M) 	116 ↑ 3	\$ 8.0M Capital/Debt \$ 35.4M O&M \$ 43.4M Total Wholesale Member solid waste service cost per ton: \$38.25 (no change)



*does not include support staff



MORE WAYS WE ARE MANAGING COSTS

Financial Management

NTMWD continues to build on its commitment to strong stewardship and transparency providing greater online access to more detailed financial data. NTMWD received recognition under the Transparency Stars program through the Texas Comptroller of Public Accounts which recognizes local governments for going above and beyond in transparency efforts. The District was awarded **the Transparency Star for Traditional Finances in 2021 and the Transparency Star for Debt Obligations in 2022**. NTMWD was also recognized by the **Government Finance Officers Association (GFOA) with its third Distinguished Budget Presentation Award**, the highest honor a public sector organization can receive for its budget document.

Growth within our region, supply chain shortages and unstable construction costs have impacted the capital improvement program budget. The District's implementation of a new financing tool, **Extendable Commercial Paper Programs (ECP) in the Regional Water System, Regional Wastewater System and Upper East Fork Interceptor System provided critical liquidity in financing capital projects as funding requirements changed in 2022**. ECP is a short-term financial instrument used to appropriate capital improvement projects. The ECP programs allow the District to appropriate capital projects without issuing long-term debt upfront and issue ECP notes as required for cash flow purposes.

The District refinanced Regional Water System bonds in FY22 which resulted in total savings of \$39.259M between 2022-2032.

The Regional Solid Waste System bond rating was upgraded by Standard & Poor's from a AA rating to a AA+ rating. The following systems also had credit rating increases by S&P from A- to A: Sabine Creek WWTP, Sabine Creek Interceptor, Parker Creek Interceptor, and Parker Creek Parallel Interceptor.

The Purchasing Department continues to implement its Competitive Bid and Proposal process. Cost avoidance is calculated by taking the total amount of all bids received and dividing by the number of bids received, then subtracting that from the awarded amount. This shows the value of going through a competitive process - FY22 Cost Avoidance \$4.45M as of August 2022.

Operations

Solid Waste

Alternate Liner System – Both state and federal regulations require a composite liner system for landfills consisting of 2 feet of clay, a 60 mil thick HDPE geomembrane, a double-sided drainage geocomposite, and 2 feet of protective cover. NTMWD received approval from the TCEQ to replace the 2 feet of clay

with a geosynthetic clay liner (GCL). By eliminating 2 feet of clay, construction time is reduced by almost half. Also, 2 feet of additional excavation is not needed along with processing the clay. This is an additional cost savings to the construction process.

Wastewater

Solids De-watering Optimization at Wilson Creek RWWTP and Current Construction Initiatives at the Rowlett Creek RWWTP

Recently installed centrifuge de-watering equipment at Wilson Creek resulted in a 30% reduction in bio-solids hauling and removal. The centrifuges replaced Belt Filter Presses that were at the end of their service life but were also older and less efficient technology. Centrifuge equipment is being reviewed and added to other facilities based on production requirement and was most recently included as part of the Rowlett Creek RWWTP solids handling improvements.

Water

Chemical Optimization at Wylie Treatment Complex

Chemical optimization efforts resulted in a reduction of chemicals used in the coagulation process at the Wylie Treatment complex. These efforts resulted in chemical feed reduction for polymer and lime, resulting in a cost avoidance of approximately \$700,000. In addition to the budgetary savings, the need for extra maintenance associated with our lime system was reduced.

Water Conveyance System Water Quality Improvements

Implementation of operational changes to delivery point level management during lower summer demand periods has resulted in a significant reduction of field staff labor hours and total gallons of water discharged during water quality flushing efforts. Recently installed water quality testing stations in strategic locations throughout the water conveyance system have proven effective in collection of critical water quality data and supporting preemptive response to water quality maintenance activities in the water conveyance system. Blow Off Valve (BOV) improvements in multiple locations in the water conveyance system provides field staff easier access and facilitates more efficient and safe flushing practices.

Energy

Energy Strategies

Due to established energy strategies used within NTMWD energy program, the District is able to minimize the impacts of increasing energy costs. NTMWD works closely with our power utilities and retail electric providers to accurately forecast our anticipated energy needs and lock in enough fixed price blocks of power to keep our energy costs predictable and to achieve the best practical rates. In addition, the NTMWD water operation's team, with our 4 Coincident Peaks (4CP) efforts, reduces pumping in the hot peak hours of the summer months in order to help the Texas power grid and minimize NTMWD exposure to high power prices.