

Water Utilities

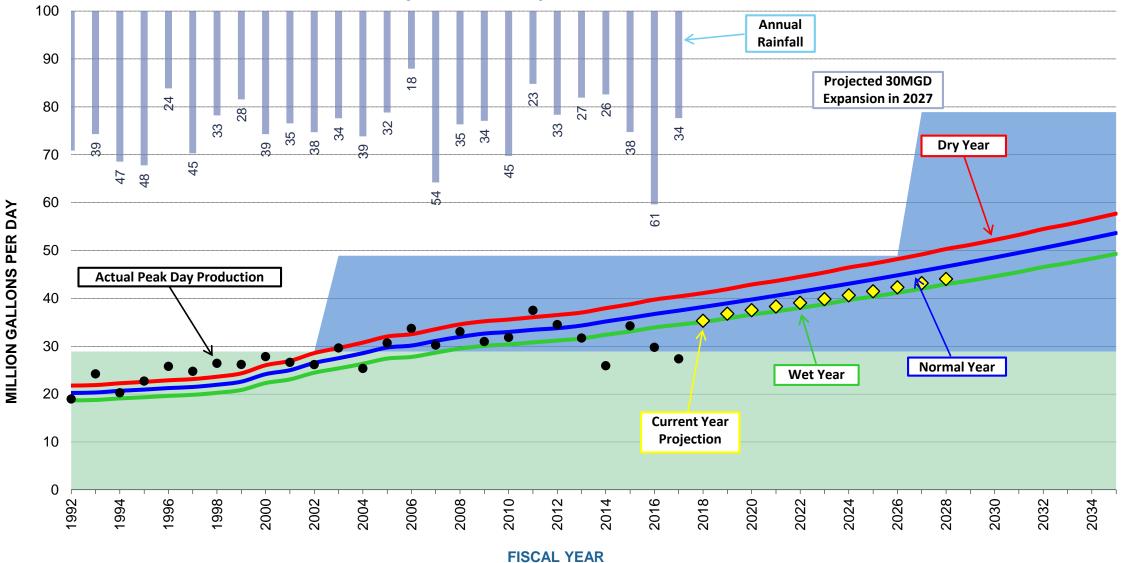
FY 2018-19 Budget Presentation

Water Volume Forecast

| Water Customers by Class | | | | | | | | | | |
|--------------------------|-------------|------|------------|------|-----------|--------|--------|--|--|--|
| Fiscal Year | Residential | | Commercial | | Wholesale | Total | Growth | | | |
| 2013 | 27,486 | 1.0% | 4,226 | 1.6% | 2 | 31,714 | 1.1% | | | |
| 2014 | 27,915 | 1.6% | 4,301 | 1.8% | 2 | 32,218 | 1.6% | | | |
| 2015 | 28,722 | 2.9% | 4,552 | 5.8% | 2 | 33,276 | 3.3% | | | |
| 2016 | 29,411 | 2.4% | 4,640 | 1.9% | 2 | 34,053 | 2.3% | | | |
| 2017 | 29,880 | 1.6% | 4,682 | 0.9% | 2 | 34,564 | 1.5% | | | |
| 2018 | 30,518 | 2.1% | 4,735 | 1.1% | 2 | 35,255 | 2.0% | | | |
| 2019 | 31,171 | 2.1% | 4,787 | 1.1% | 2 | 35,960 | 2.0% | | | |
| 2020 | 31,839 | 2.1% | 4,839 | 1.1% | 2 | 36,680 | 2.0% | | | |
| 2021 | 32,520 | 2.1% | 4,891 | 1.1% | 2 | 37,413 | 2.0% | | | |
| 2022 | 33,216 | 2.1% | 4,944 | 1.1% | 2 | 38,161 | 2.0% | | | |
| 2023 | 33,927 | 2.1% | 4,996 | 1.1% | 2 | 38,925 | 2.0% | | | |

Water Volume Forecast

Historical and Projected Peak Day Finished Water Production



Water Assumptions

- All rates based on cost of service
- Maintain debt coverage ratio of 1.25 or higher
- Distribution system replacement funding target is 100% revenue funded
- Treatment plant infrastructure funding target is 25% revenue funded, 75% debt funded
- Reserves maintained within 120-180 day range(33%-50% of budgeted expenses)
- Use multi-year financial planning to minimize rate increases
- Rate revenue forecast based on 145 GPCD

Water Cost Containment Strategies

- Improved debt service efficiency by balancing CIP projects and cash flow schedules.
- Budgeted salary savings of \$175,000 (vacancies)
- Reduced revenue funded capital in FY19 by \$2 million to level out the 5 year contributions
- Removed Customer Service from Water budget to better reflect actual operating days of reserves for fund

Water Future Risks and Mitigation

- Raw Water Transmission Line costs
 - Assessment studies used to target repairs where needed In FY20 CIP \$750,000 & Construction in FY21 CIP \$10,600,000
- Lewisville Dam repair
 - Working with Army Corps of Engineers for cost sharing Currently budgeted \$3,750,000 in FY20, FY21, FY22 & FY23
- Ray Roberts 30MGD Expansion
 - Design is budgeted in FY22CIP \$9,000,000 & Construction of the expansion is forecasted to start in 2024
- Other transmission lines replacement funding
 - Using studies, system planning, and assessments to target funding where needed Budgeted \$3,000,000 in FY23 CIP
- Age and condition of Lake Lewisville pump station
 - Programming into future CIP
- Declining per capita water usage
 - adjusting forecasts downwards

Water Options

Option 1: 2% Rate Decrease

• \$5.6 million reduction in reserves from FY 2019 to FY 2023

Option 2: No rate changes FY 2019 to FY 2023 (reduces future debt issues)

- \$4.2 million reduction in reserves from FY 2019 to FY 2023
- Funds an additional \$2.95 million of capital projects with revenue funding
- Reduces debt payment by \$922,515 from FY 2019 to FY 2023

Water 5 Year Forecast – Option 1 – 2% Rate Decrease

| | | Actual FY 2017 | Budget FY 2018 | Estimate FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 |
|--|-------------------|-------------------|-------------------|---------------------|-----------|-----------|-----------|-------------------|----------|
| Revenues (x 1,000) | | | | | | | | | |
| Rate Revenue | | \$34,514 | \$37,120 | \$36,880 | \$36,779 | \$37,931 | \$38,599 | \$39,384 | \$40,185 |
| Non Rate Revenue | | \$2,784 | \$2,253 | \$2,101 | \$2,511 | \$2,569 | \$2,595 | \$2,602 | \$2,668 |
| Impact Fee From Reserves | _ | \$4,000 | \$3,755 | \$3,755 | \$5,700 | \$5,700 | \$5,900 | \$5,500 | \$5,500 |
| Subtotal | | \$41,299 | \$43,128 | \$42,736 | \$44,989 | \$46,200 | \$47,095 | \$47 <i>,</i> 486 | \$48,353 |
| Planned Use of Reserves | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL REVENUE | | \$41,299 | \$43,128 | \$42,736 | \$44,989 | \$46,200 | \$47,095 | \$47,486 | \$48,353 |
| Expenditures (x 1,000) | | | | | | | | | |
| O&M | | \$14,247 | \$16,640 | \$15,663 | \$17,151 | \$17,807 | \$18,188 | \$18,625 | \$19,111 |
| Revenue Funded Capital | | \$11,579 | \$8,269 | \$8,497 | \$11,688 | \$10,728 | \$11,725 | \$10,648 | \$10,474 |
| Transfers (Internal and External) | | \$2,380 | \$2,357 | \$2,370 | \$2,450 | \$2,527 | \$2,632 | \$2,711 | \$2,792 |
| ROI/Franchise Fee | | \$2,947 | \$3,224 | \$3,176 | \$3,177 | \$3,275 | \$3,333 | \$3,411 | \$3,480 |
| Debt Service | _ | \$11,195 | \$12,638 | \$12,638 | \$12,663 | \$13,592 | \$12,798 | \$12,771 | \$11,534 |
| TOTAL EXPENSE | _ | \$42,348 | \$43,128 | \$42,345 | \$47,128 | \$47,930 | \$48,676 | \$48,166 | \$47,391 |
| Net Income | = | -\$1,049 | \$0 | \$392 | (\$2,138) | (\$1,730) | (\$1,582) | (\$680) | \$962 |
| Rate Increases | | 5.0% | 0.0% | 0.0% | -2.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| FY 2017 Rate Increases | | 5.0% | 0.0% | 0.0% | 0.0% | 2.0% | 2.0% | 2.0% | |
| Impact Fee SFE's | Zone 1A - \$3,100 | 139 | 419 | 139 | 473 | 395 | 197 | 195 | 156 |
| | Zone 1B - \$3,900 | 1,110 | 559 | 1,270 | 632 | 628 | 787 | 595 | 406 |
| | Zone 2 - \$4,500 | 82 | 54 | 82 | 61 | 115 | 172 | 383 | 629 |
| | Total | 1,331 | 1,032 | 1,490 | 1,165 | 1,139 | 1,156 | 1,173 | 1,191 |
| RESERVE BALANCES | | FY 2017 | FY 2018 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 |
| Working Capital | | \$3,388 | \$3,450 | \$3,388 | \$3,770 | \$3,834 | \$3,894 | \$3,853 | \$3,791 |
| Operating Reserve | | \$19,605 | \$16,527 | \$19,747 | \$16,976 | \$14,932 | \$13,291 | \$12,652 | \$13,676 |
| Wrking Cptl + Op Reserve | | \$22,993 | \$19,977 | \$23,135 | \$20,746 | \$18,767 | \$17,185 | \$16,505 | \$17,467 |
| Number of Working Days | | 198 | 169 | 199 | 161 | 143 | 129 | 125 | 135 |
| Development Plan Lines | | \$250 | \$500 | \$500 | \$750 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| Impact Fee Reserve | | \$6,650 | \$5,250 | \$7,102 | \$5,620 | \$4,176 | \$2,743 | \$1,955 | \$1,308 |
| Debt Coverage Ratio - 1.25 | | 1.99 | 2.48 | 1.99 | 2.05 | 1.94 | 2.09 | 2.08 | 2.33 |
| Wrking Cptl/ Op Reserve Target - 120 Day | ys (33%) | \$13,975 | \$14,232 | \$13,974 | \$15,552 | \$15,817 | \$16,063 | \$15,895 | \$15,639 |
| Wrking Cptl/ Op Reserve Target - 180 Day | ys (50%) | \$21,174 | \$21,564 | \$21,172 | \$23,564 | \$23,965 | \$24,338 | \$24,083 | \$23,696 |
| Net Revenue w/Rate Increase | 1% | | | \$322 | \$326 | \$336 | \$342 | \$349 | \$356 |
| | Rate Adjustment | | | | -2% | 0% | 0% | 0% | 0% |

Water 5 Year Forecast – Option 2 – No Rate Changes (Reduce Future Debt)

| | | Actual | Budget | Estimate | | 0 | | | |
|---|-------------------|----------|----------|----------|------------------|----------|-------------------|----------|----------|
| | | FY 2017 | FY 2018 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 |
| Revenues (x 1,000) | | | | | | | | | |
| Rate Revenue | | \$34,514 | \$37,120 | \$36,880 | \$37,506 | \$38,681 | \$39,363 | \$40,163 | \$40,980 |
| Non Rate Revenue | | \$2,784 | \$2,253 | \$2,101 | \$2,511 | \$2,530 | \$2,572 | \$2,593 | \$2,677 |
| Impact Fee From Reserves | | \$4,000 | \$3,755 | \$3,755 | \$5,700 | \$5,700 | \$5,900 | \$5,500 | \$5,500 |
| Subtotal | | \$41,299 | \$43,128 | \$42,736 | \$45,716 | \$46,911 | \$47 <i>,</i> 835 | \$48,256 | \$49,157 |
| Planned Use of Reserves | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL REVENUE | | \$41,299 | \$43,128 | \$42,736 | \$45,716 | \$46,911 | \$47,835 | \$48,256 | \$49,157 |
| Expenditures (x 1,000) | | | | | | | | | |
| 0&M | | \$14,247 | \$16,640 | \$15,663 | \$17,153 | \$17,809 | \$18,190 | \$18,627 | \$19,114 |
| Revenue Funded Capital | | \$11,579 | \$8,269 | \$8,497 | \$14,638 | \$10,728 | \$11,725 | \$10,648 | \$10,474 |
| Transfers (Internal and External) | | \$2,380 | \$2,357 | \$2,370 | \$2,450 | \$2,527 | \$2,632 | \$2,711 | \$2,792 |
| ROI/Franchise Fee | | \$2,947 | \$3,224 | \$3,176 | \$3,239 | \$3,339 | \$3,398 | \$3,477 | \$3,548 |
| Debt Service | | \$11,195 | \$12,638 | \$12,638 | \$12,663 | \$13,362 | \$12,567 | \$12,540 | \$11,303 |
| TOTAL EXPENSE | | \$42,348 | \$43,128 | \$42,345 | \$50,142 | \$47,765 | \$48,513 | \$48,003 | \$47,230 |
| Net Income | | -\$1,049 | \$0 | \$392 | (\$4,425) | (\$854) | (\$678) | \$252 | \$1,927 |
| Rate Increases | | 5.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| FY 2017 Rate Increases | | 5.0% | 0.0% | 0.0% | 0.0% | 2.0% | 2.0% | 2.0% | |
| Impact Fee SFE's | Zone 1A - \$3,100 | 139 | 419 | 139 | 473 | 395 | 197 | 195 | 156 |
| | Zone 1B - \$3,900 | 1,110 | 559 | 1,270 | 632 | 628 | 787 | 595 | 406 |
| | Zone 2 - \$4,500 | 82 | 54 | 82 | 61 | 115 | 172 | 383 | 629 |
| | Total | 1,331 | 1,032 | 1,490 | 1,165 | 1,139 | 1,156 | 1,173 | 1,191 |
| RESERVE BALANCES | | FY 2017 | FY 2018 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 |
| Working Capital | | \$3,388 | \$3,450 | \$3,388 | \$4,011 | \$3,821 | \$3,881 | \$3,840 | \$3,778 |
| Operating Reserve | | \$19,605 | \$16,527 | \$19,747 | \$14,448 | \$13,534 | \$12,797 | \$13,090 | \$15,078 |
| Wrking Cptl + Op Reserve | | \$22,993 | \$19,977 | \$23,135 | \$18,459 | \$17,356 | \$16 <i>,</i> 678 | \$16,930 | \$18,857 |
| Number of Working Days | | 198 | 169 | 199 | 134 | 133 | 125 | 129 | 146 |
| Development Plan Lines | | \$250 | \$500 | \$500 | \$750 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| Impact Fee Reserve | | \$6,650 | \$5,250 | \$7,102 | \$5 <i>,</i> 620 | \$4,176 | \$2,743 | \$1,955 | \$1,308 |
| Debt Coverage Ratio - 1.25 | | 1.99 | 2.48 | 1.99 | 2.10 | 2.02 | 2.18 | 2.18 | 2.45 |
| Wrking Cptl/ Op Reserve Target - 120 Days | s (33%) | \$13,975 | \$14,232 | \$13,974 | \$16,547 | \$15,762 | \$16,009 | \$15,841 | \$15,586 |
| Wrking Cptl/ Op Reserve Target - 180 Days | s (50%) | \$21,174 | \$21,564 | \$21,172 | \$25,071 | \$23,882 | \$24,256 | \$24,002 | \$23,615 |
| Net Revenue w/Rate Increase | 1% | | | \$322 | \$332 | \$343 | \$349 | \$356 | \$364 |
| | Rate Adjustment | | | | 0% | 0% | 0% | 0% | 0% |

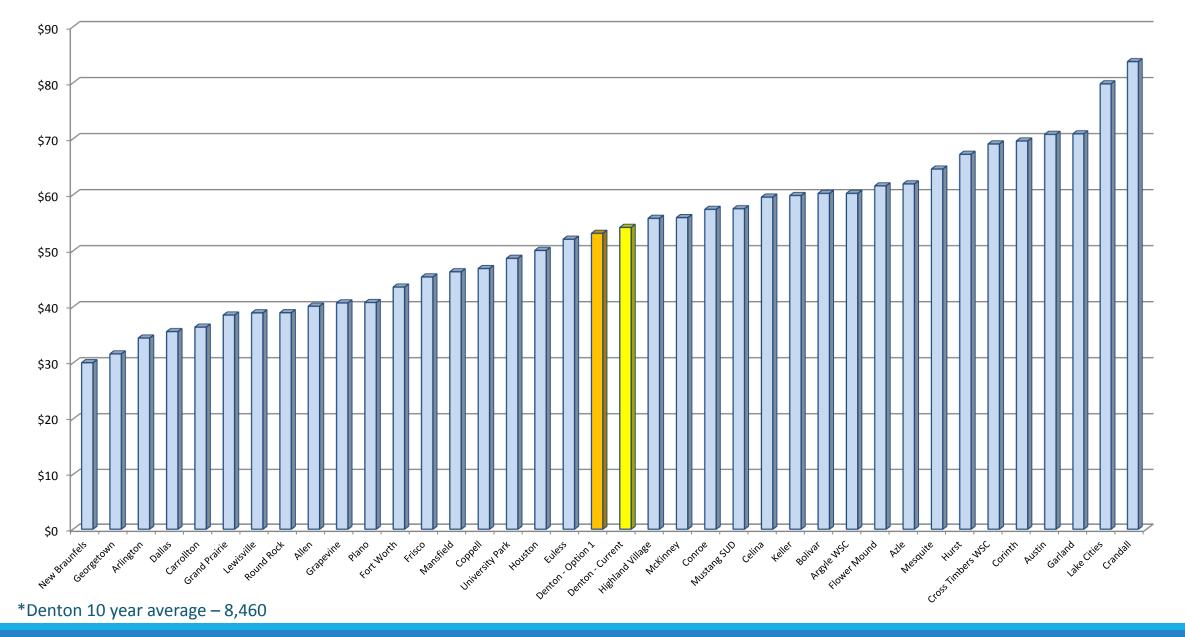
Water Budget Highlights

| Revenues | FY 2014-15 Actuals | FY 2015-16 Actuals | FY 2016-17 Actuals | FY 2017-18 Budget | FY 2017-18 Estimate | FY 2018-19 Proposed |
|--------------------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|------------------------|
| Interest Operating | 75,016 | 99,325 | 223,638 | 175,000 | 174,000 | 247,000 |
| Water Sales Residential | 15,767,866 | 16,705,733 | 17,504,928 | 19,550,225 | 18,585,215 | 19,106,287 |
| Water Sales Commercial | 14,303,188 | 15,481,755 | 15,707,766 | 17,016,173 | 16,575,408 | 16,504,322 |
| Water for Resale | 1,042,231 | 616,588 | 1,301,603 | 553,406 | 1,719,330 | 1,168,296 |
| Other Water | 1,017,404 | 8,698,367 | 1,381,159 | 759,832 | 748,099 | 767,349 |
| Cost of Service - General Fund | 259,956 | 323,645 | 356,263 | 366,019 | 338,389 | 435,223 |
| Cost of Service - Electric | 394,748 | 384,988 | 398,550 | 480,674 | 374,204 | 474,500 |
| Cost of Service - Wastewater | 357,687 | 477,189 | 400,765 | 435,114 | 439,368 | 457,694 |
| Cost of Service - Solid Waste | 25,097 | 21,875 | 24,120 | 36,262 | 26,982 | 128,734 |
| Impact Fee Revenue Utilization | 3,600,000 | 4,000,000 | 4,000,000 | 3,755,404 | 3,755,404 | 5,700,000 |
| TOTAL REVENUES | 36,843,766 | 46,809,465 | 41,298,792 | 43,128,109 | 42,736,399 | 44,989,405 |
| Use of Reserves | _ | - | - | | - | _ |
| Total | 36,843,766 | 46,809,465 | 41,298,792 | 43,128,109 | 42,736,399 | 44,989,405 |

Water Budget Highlights

| Expenses | FY 2014-15 Actuals | FY 2015-16 Actuals | FY 2016-17 Actuals | FY 2017-18 Budget | FY 2017-18 Estimate | FY 2018-19 Proposed |
|------------------------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|------------------------|
| Purchased Power | 1,398,275 | 1,295,189 | 1,221,663 | 1,600,000 | 1,561,851 | 1,431,895 |
| Purchased Water | 68,198 | - | - | - | - | 3,000 |
| Personal Services | 6,541,314 | 6,690,347 | 6,758,581 | 8,370,593 | 7,925,456 | 8,855,034 |
| Materials & Supplies | 1,037,444 | 1,101,030 | 1,169,137 | 1,325,614 | 1,290,976 | 1,408,230 |
| Maintenance & Repairs | 1,260,916 | 1,212,959 | 1,446,725 | 1,556,322 | 1,371,558 | 1,594,203 |
| Insurance | 177,917 | 189,432 | 67,537 | 182,800 | 179,420 | 223,433 |
| Return on Investment | 1,099,858 | 1,173,001 | 1,213,302 | 1,327,607 | 1,316,982 | 1,314,119 |
| Franchise Fee | 1,571,226 | 1,675,715 | 1,733,289 | 1,896,582 | 1,859,180 | 1,862,649 |
| Miscellaneous | 296,520 | 317,897 | 311,243 | 334,578 | 330,769 | 384,510 |
| Operations | 1,123,278 | 1,017,995 | 1,113,362 | 1,667,554 | 1,441,841 | 1,691,305 |
| Debt Service | 13,832,362 | 13,443,255 | 11,195,411 | 12,638,094 | 12,638,094 | 12,662,613 |
| Cost of Service- General Fund | 1,069,278 | 913,013 | 944,418 | 890,659 | 890,659 | 917,379 |
| Cost of Service - Other | 2,011,591 | 2,188,720 | 2,380,204 | 2,357,263 | 2,370,400 | 2,449,944 |
| Transfer to Other Capital Projects | 739,396 | 669,056 | 1,050,618 | 541,785 | 670,045 | 641,785 |
| Transfer to Capital Projects | 6,521,627 | 8,034,969 | 11,742,536 | 8,438,658 | 8,497,358 | 11,687,715 |
| Total | 38,749,200 | 39,922,578 | 42,348,026 | 43,128,109 | 42,344,589 | 47,127,813 |

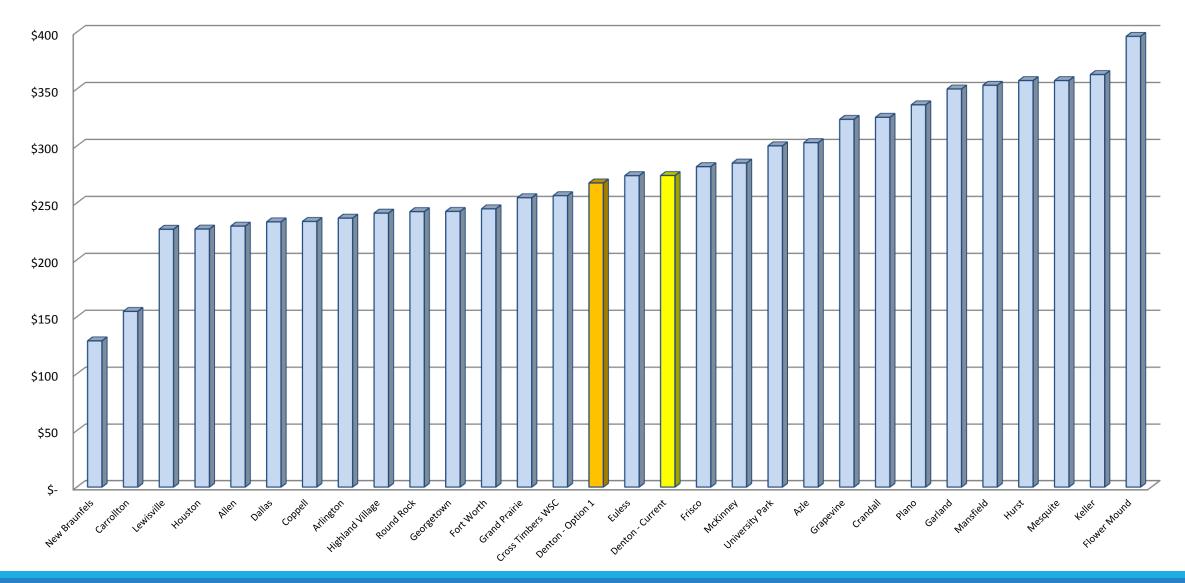
Residential Water 9,200 Gallons



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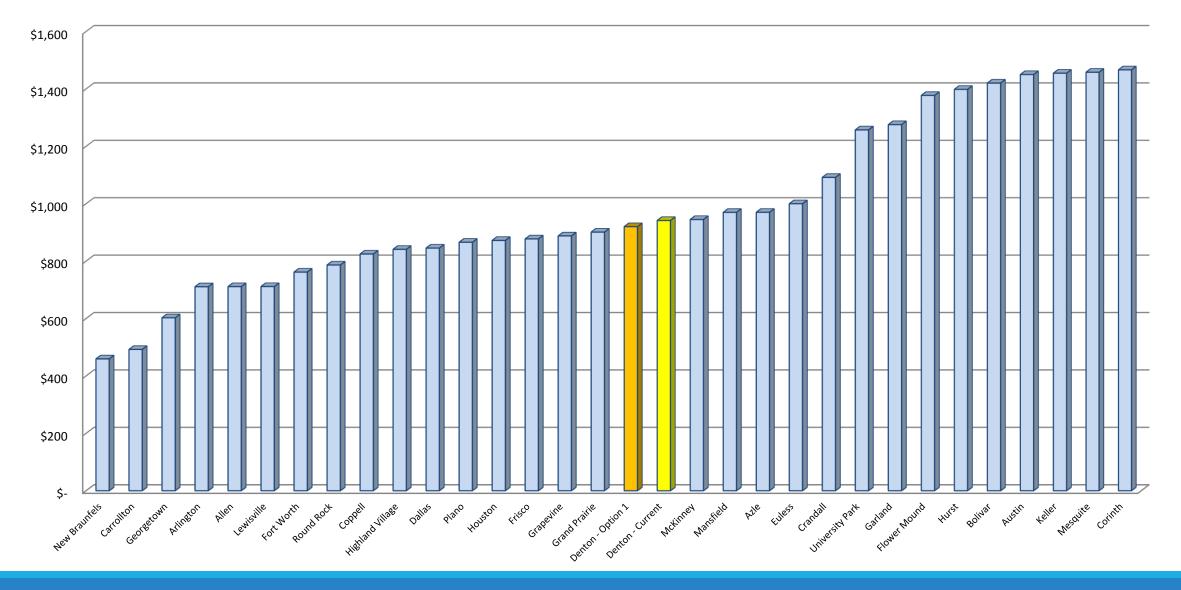
Commercial Water 50,000 Gallons

2" Meters



Commercial Water 200,000 Gallons

2" Meters



Water Utilities

Departmental Presentation

Water Accomplishments

Accomplishments for 17-18

- Started 5-year update of the Water/Wastewater impact fees
- Started 25 year Water Distribution Master Plan
- Completed preliminary design for solids handling system for Lewisville WTP and moved into final design
- Completed Lake Lewisville Buoy Installation Project
- Completed a chloramination boosting facility at the southwest elevated tower to maintain water quality at Robson Ranch
- Completed water distribution replacement projects in advance of planned bond funded street reconstruction work

Water Goals

Goals for 18-19

- Complete 5-year update of Water/Wastewater impact fees
- Complete 25 year Water Distribution Master Plan
- Complete 10 year Utility Management Study (City Charter requirement)
- Begin construction of Lake Lewisville water treatment plant phase II rehabilitation and solids handling projects
- Complete Ray Roberts water treatment plant and equipment assessment and move into final design for plant rehabilitation
- Implement water Infomaster to assist decision-making for water line infrastructure replacements

Water Budget Emphasis

•Water system reliability and sustainability

- •Plan and implement replacements for aging infrastructure
- •Plan and implement capital improvements to support community growth

Water Process Improvements

Completed Process Improvement

- Converted from paper map books to portable laptops for water distribution
- More effectively used GIS and CMM software to plan and prioritize water distribution line replacements and coordinate with street department paving operations.

Future Process Improvement

- Improve efficiency and cost effectiveness on water main line replacement installations
- Develop a permanent system for handling and disposing of solids produced from the Lewisville Water Treatment Plant to replace the proposed temporary system
- Improve work order system in water metering using CityWorks software
- Continue to improve asset management program

Water Position Summary

| Personnel (FTE) | FY 2014-15 Actuals | FY 2015-16 Actuals | FY 2016-17 Actuals | FY 2017-18 Budget | FY 2017-18 Estimate | FY 2018-19 Proposed |
|--------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|------------------------|
| Regular | 94.00 | 95.00 | 102.00 | 102.00 | 103.50 | 103.5 |
| Temporary/Seasonal | 4.00 | 4.00 | 4.00 | 3.00 | 3.00 | 2.00 |
| Total | 98.00 | 98.00 | 106.00 | 105.00 | 106.50 | 105.5 |

Additional FTE's

| Department | Position | FTE | Position Description |
|---------------------|-------------------|-----|---|
| 630100 – Production | Electronic Tech I | 1 | Need additional Electronic Tech I to provide proper maintenance for all of the new equipment related to the ozone system at Lake Lewisville water treatment plant, chemical control equipment, turbidity analyzers, chlorine analyzers, communication radios and security cameras for all of the facilities. |

Transferred to Wastewater FTE's

| Old Department | Position | FTE | Position Description |
|----------------|-------------------------|-----|---|
| Water Admin | Engineering Tech IV | 1 | Moving positions to a new business unit in wastewater but water will make a |
| Water Admin | Engineering Tech Intern | 1 | transfer to wastewater for the positions salary |

Water 5 Year Capital Plan

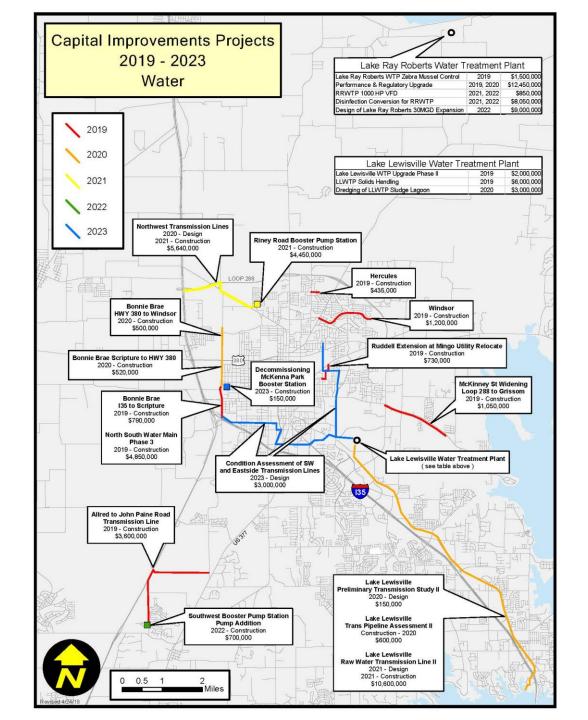
2019-2023 Capital Improvements Plan Cash Requirements - Water

| Group | Assignment Categories | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|--------------------|--------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 002 | 002-BOOSTER STATION | | 300,000 | 4,150,000 | 700,000 | | 5,150,000 |
| 003 | 003-BUILDING CONSTRUCTION | 1,300,000 | | | | | 1,300,000 |
| 020 | 020-FIELD SERVICES REPLCE | 1,888,168 | 1,514,325 | 1,521,988 | 1,424,919 | 1,990,540 | 8,339,940 |
| 024 | 024-MISC | | 3,750,000 | 3,750,000 | 3,750,000 | 3,750,000 | 15,000,000 |
| 027 | 027-OFFICE FURN/COMPUTER/EQUIP | | 50,000 | | | | 50,000 |
| 029 | 029-OVERSIZE LINES | 200,000 | 200,000 | 200,000 | 200,000 | 200,000 | 1,000,000 |
| 036 | 036-REPLACE LINES | 4,205,000 | 1,020,000 | | | | 5,225,000 |
| 042 | 042-TAPS,FIRE HYDS, METERS | 1,334,547 | 1,393,832 | 1,453,398 | 1,513,250 | 1,573,397 | 7,268,424 |
| 043 | 043-TOOLS & EQUIPMENT | 270,000 | 10,000 | 10,000 | 10,000 | 10,000 | 310,000 |
| 045 | 045-TRANSMISSION LINES | 8,450,000 | 2,050,000 | 14,940,000 | | 3,000,000 | 28,440,000 |
| 048 | 048-PLANT IMPROVEMENTS | 10,950,000 | 14,000,000 | 1,150,000 | 16,750,000 | 150,000 | 43,000,000 |
| 050 | 050-VEHICLES | 611,000 | 751,000 | 331,000 | 199,000 | 554,000 | 2,446,000 |
| Grand [·] | Totals | \$29,208,715 | \$25,039,157 | \$27,506,386 | \$24,547,169 | \$11,227,937 | \$117,529,364 |
| | Aid in Construction | \$258,047 | \$265,788 | \$273,762 | \$281,975 | \$290,434 | \$1,370,006 |
| | Revenue | \$16,050,668 | \$11,223,369 | \$11,792,624 | \$10,565,194 | \$10,737,503 | \$60,369,358 |
| | Utility Bonds | \$12,900,000 | \$13,550,000 | \$15,440,000 | \$13,700,000 | \$200,000 | \$55,790,000 |
| Grand [·] | Totals | \$29,208,715 | \$25,039,157 | \$27,506,386 | \$24,547,169 | \$11,227,937 | \$117,529,364 |
| | Water Required Bond Sale | 12,250,000 | 13,300,000 | 15,000,000 | 13,500,000 | 0 | 54,050,000 |

Major CIP projects

G-045 North South Water Main Phase 3 – FY19 G-045 Allred to John Paine Road Transmission Line – FY19 G-048 LLWTP Solids Handling – FY19 G-048 Performance & Regulatory Upgrade of RRWTP – FY19 & FY20 G-002 Riney Road Booster Pump Station – FY20 & FY21 G-045 Lewisville Raw Water Transmission Line II – FY20 & FY21 G-045 Northwest Transmission Lines – FY20 & FY21 G-048 Disinfection Conversion for RRWTP – FY21 & FY22 G-048 Design of Lake Ray Roberts 30MGD Expansion – FY22 G-045 Condition Assessment of SW & Eastside Tran Line – FY23 G-024 Lewisville Dam Safety Modifications – FY20, FY21, FY22 & FY23

\$4,850,000 \$3,600,000 \$6,000,000 \$12,450,000 \$4,450,000 \$11,350,000 \$5,640,000 \$8,050,000 \$9,000,000 \$3,000,000 \$15,000,000





Questions / Comments