

Wastewater Department

Denton City Council
Department Presentation

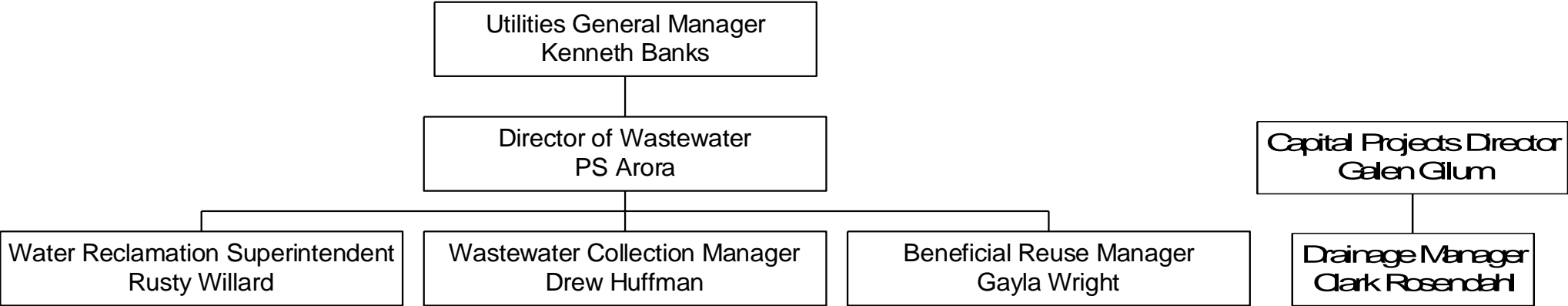


Wastewater Department

FTE's By Functional Area

FTE's By Functional Area	FY 2014-15 Actuals	FY 2015-16 Actuals	FY 2016-17 Budget	FY 2017-18 Proposed
Administration	9.75	9.75	9.75	9.75
Reclamation	25.00	26.00	26.00	26.00
Collection	33.00	34.50	34.50	33.00
Beneficial Reuse	7.00	7.00	7.00	7.00
Laboratory	4.00	4.00	4.00	4.00
Industrial Pretreatment	7.50	7.50	7.50	7.50
Drainage	16.50	16.50	16.50	15.50
Watershed Protection	6.00	6.00	7.00	7.00
Total FTE's	108.75	111.25	112.25	109.75

Wastewater Department



Wastewater Department Goals and Accomplishments

Accomplishments for 16-17:

1. Completed design of Hickory Creek and West Peak Flow Detention Facility.
2. Awarded the Pecan Creek Interceptor Phase 4 project for construction.
3. Met TCEQ phosphorous limit of 0.5 mg/l due to plant improvements.
4. In-house construction and preventative maintenance costs lower than contracted costs.
5. Compost Operation received the 2017 Ron Sieger Award from Water Environment Association of Texas.
6. Reduced sanitary sewer overflow volumes during a wet year.

Goals for 17-18:

1. Begin construction of Hickory Creek and West Peak Flow Detention Facility project.
2. Meet EPA Administrative Order requirements.
3. In-house construction and preventative maintenance costs continue to be lower than contracted costs.
4. Complete update of Wastewater Master Plan Model.

Wastewater Department Performance Measures

Current Performance Measures:

1. O&M cost per account
2. O&M cost per million gallons treated

Proposed Performance Measures:

1. Compost Sales Revenue plus Cost Avoidance (sludge and yard waste disposal) compared to Cost of Operation
2. Sanitary Sewer Overflows less than 3 per 100 miles of Sewer
3. Cost comparisons between in-house and contracted service for line cleaning, Closed-Circuit Television (CCTV), and construction
4. Sewer Main Chokes less than 1 per 1,000 customers

Wastewater Department Cost Containment Strategies

Summary of Department efforts:

1. Eliminated FTEs (Savings of \$100,246).
2. Administration department reorganization (Savings of \$40,853).
3. Budgeted salary savings of \$120,000 for turnover and vacancies.
4. Reduced FY 2017 to FY 2018 O&M budget by \$254,739.
5. Improved debt service efficiencies by balancing CIP projects and cash flow schedules.
6. Reduced revenue funded capital variability by leveling over 5 years.
7. Total reductions are approximately equal to 2.4% rate increase.
8. Exceptional operation and maintenance program resulted in rescinded EPA consent decree, saving over \$100 million in studies, design, and construction.

Wastewater Department Process Improvements

Completed Projects:

1. Continued to refine condition assessments and life-cycle assumptions for Wastewater Collections asset management program.
2. Lean program: improved information consistency among departments by streamlining construction plan information flow.

Future Projects:

1. “Criticality” Ranking for plant and lift station equipment.
2. Equipment reliability analyses.
3. Create work flow charts of all critical plant activities.
4. Improve work order data reliability for CityWorks.
5. Continually improve asset management program.

Wastewater Department Expenditure Budget Highlights

Expenses	FY 2014-15 Actuals	FY 2015-16 Actuals	FY 2016-17 Budget	FY 2017-18 Proposed
Purchased Power	\$987,428	\$1,192,928	\$946,000	\$1,221,000
Personal Services	\$7,266,877	\$7,387,387	\$8,237,275	\$8,103,746
Materials & Supplies	\$599,930	\$924,844	\$1,489,447	\$1,260,309
Maintenance	\$1,183,519	\$1,219,472	\$1,629,270	\$1,470,909
Insurance	\$250,460	\$247,655	\$187,676	\$180,492
Return on Investment	\$801,347	\$852,911	\$881,344	\$902,326
Franchise Fees	\$1,144,782	\$1,218,444	\$1,259,062	\$1,289,037
Miscellaneous	\$45,675	\$46,911	\$55,108	\$57,131
Operations	\$1,932,716	\$1,848,210	\$2,477,777	\$2,328,347
Debt Service	\$7,037,145	\$7,637,410	\$6,907,431	\$7,167,280
Cost of Service	\$3,017,679	\$3,267,989	\$3,503,618	\$3,292,383
Transfer to Capital Projects	\$5,147,430	\$6,563,561	\$11,021,533	\$6,750,081
Total	\$29,414,988	\$32,407,722	\$38,595,541	\$34,023,041

Wastewater Department FY 2018 Major CIP Projects

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|--|---------------|
| • Cooper Creek Interceptor I | \$2.7 Million |
| • Dry Fork Hickory Creek Tributary 1 Interceptor | \$1.5 Million |
| • Cooper Creek Interceptor II | \$1.2 Million |
| • Hickory Creek Lift Station Upgrade | \$0.6 Million |

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Questions / Comments

