

# City Council Retreat

## Water Resources Department



January 31, 2019

Steven D. Drew

# Departmental Overview

## Agenda

1. Preamble
2. Rates and Fees
3. Budget / Cost Drivers
4. Operational Drivers
5. Emerging Contaminants
6. Miscellany



T.Z. Osborne Water Reclamation Facility  
Prior to Package IV BNR Construction

# Preamble

**Number of employees: 355**

## **Departmental Budget FY 18-19**

- Water & Sewer: \$141,310,133
- Stormwater: \$14,051,616

## **Capital Improvement Projects**

- 2018- \$86.8 M
- 5-year projection: \$308 M

## **Water & Sewer System**

2 Water Treatment Plants

- Mitchell (24 MGD)
- Townsend (30 MGD)

1 Wastewater Treatment Plant

- TZ Osborne (56 MGD)

## **Interconnections**

PTRWA	6.7-7.8 MGD
Reidsville	1-5 MGD
Burlington	1.5-5 MGD
High Point	1 MGD*
WSFCUC	1-3 MGD*

\* Emergency basis only

## **Divisions**

Business

Customer Service

Engineering

Operations

Stormwater

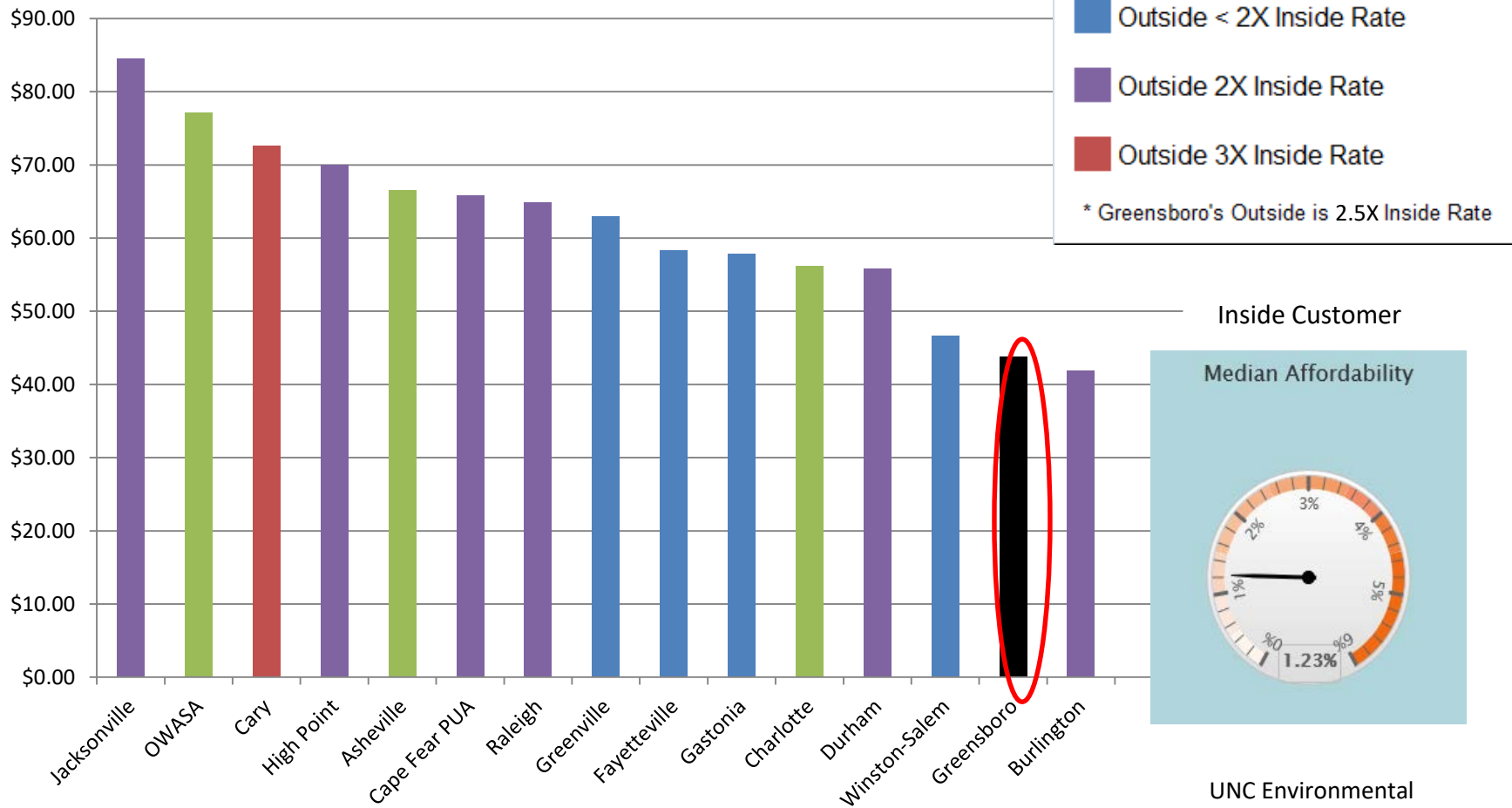
Water Reclamation

Water Supply



# Rate Comparison to Other NC Cities

Rates as of January 1, 2018 (Avg. Residential Customer – 6 units)



OWASA provides water to Carrboro-Chapel Hill Community; Cape Fear is in Wilmington.

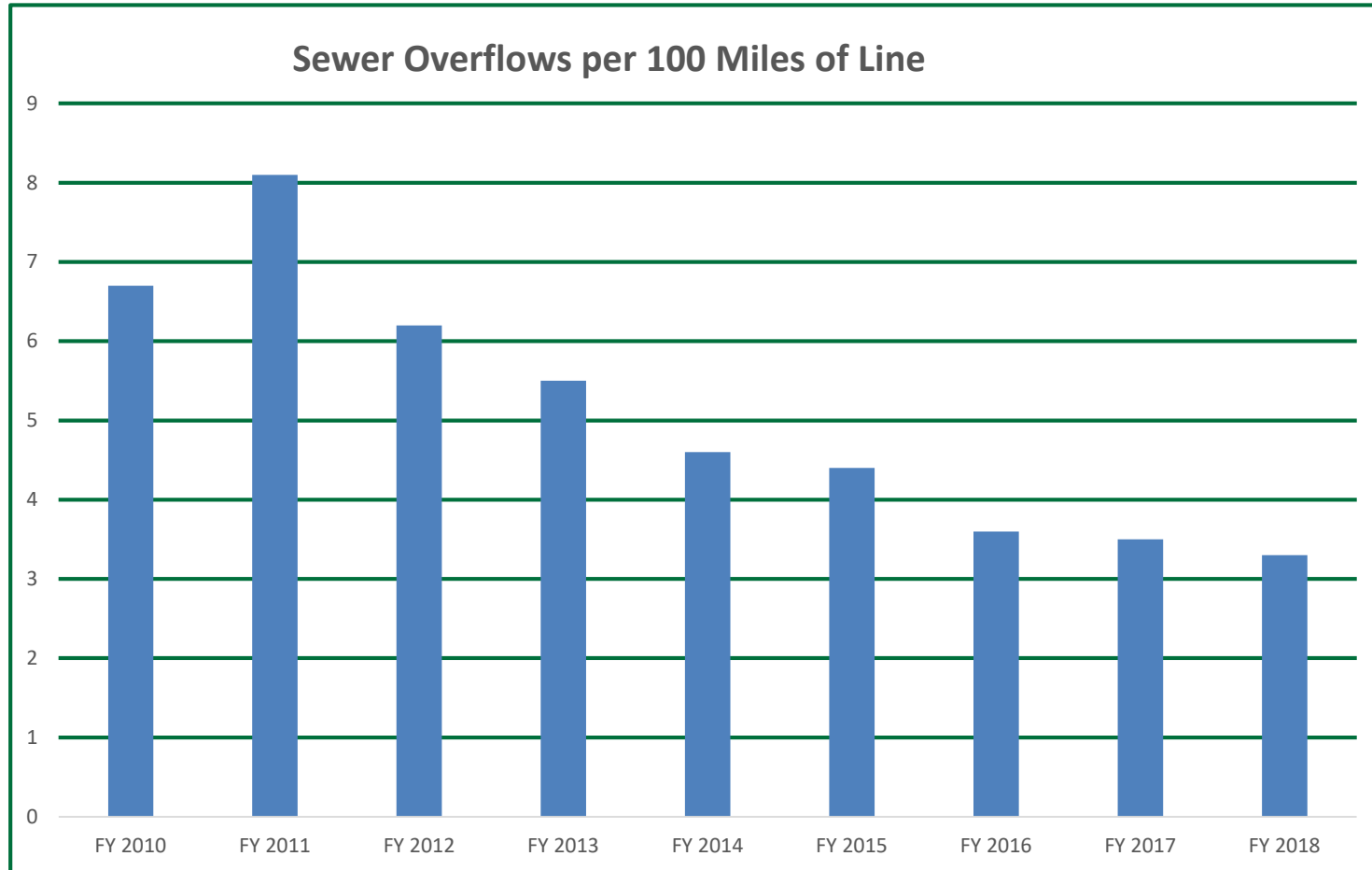
# Rate Drivers



Lake Townsend Labyrinth Spillway  
Tropical Storm Florence

1. Infrastructure Rehab and Replacement
2. Regulatory
3. System Demands

# Budget and Cost Drivers



**FY19 Projection – 4.2**



# Regulatory

## **Public Drinking Water Rules - Revisions**

- Public Comment Period open through February 1

## **EPA Lead and Copper Rule – Revisions**

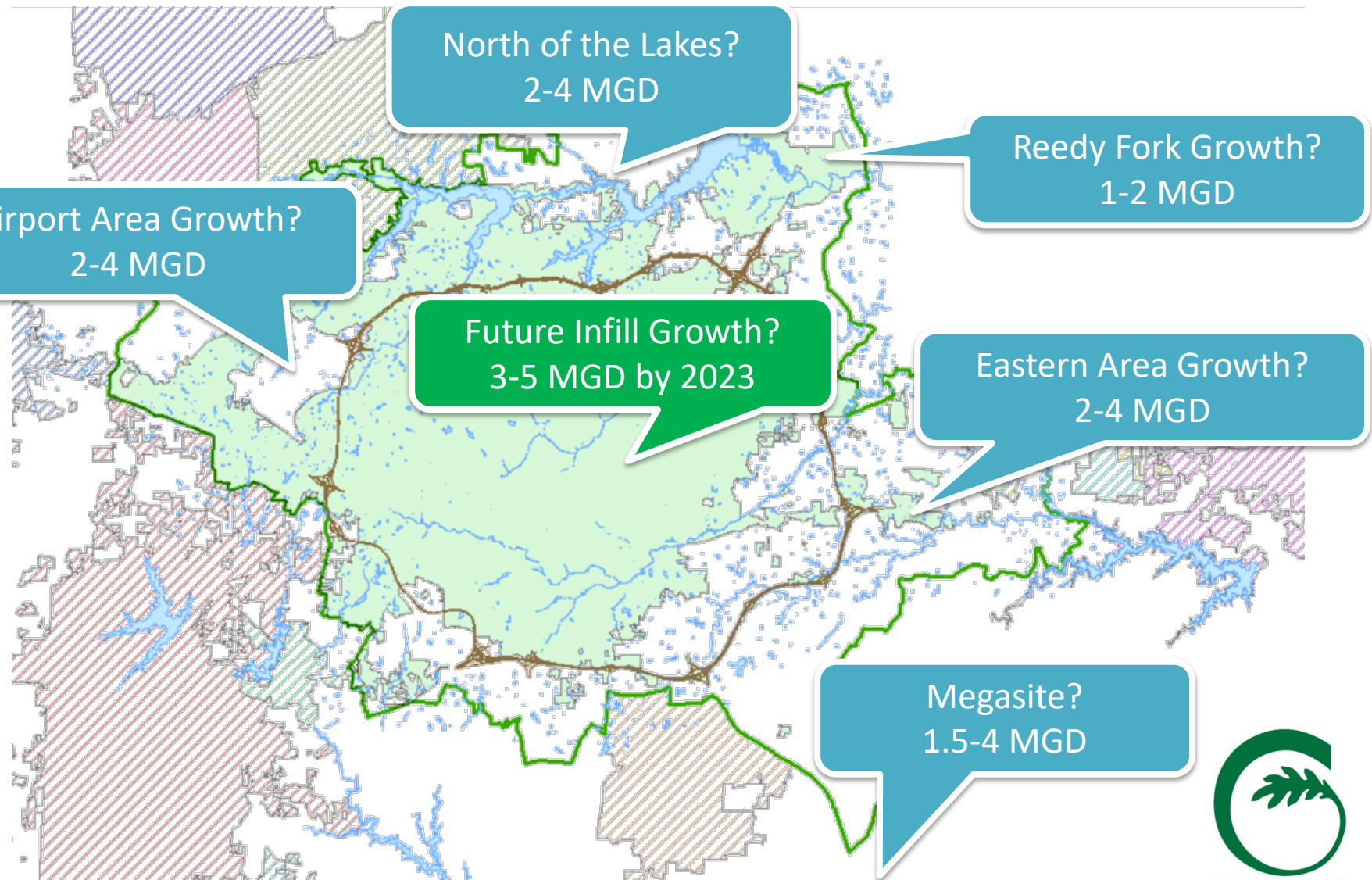
- EPA 3T's Guidance Document Revised
- GCS proceeding independently in testing facilities
- EPA Notice of Proposed Rulemaking – 2/2019

## **T.Z. Osborne WRF NPDES Permit Renewal**

- Permit Renewal Application Submitted 11/2018
- Nitrogen Reduction Schedule in Current Permit
- Full (Jordan) Nutrient Compliance by 1/1/2021



# Future System Demands





# Water & Sewer Capacity Study

- Study Authorized by City Council in July 2018
- Evaluates the Utility's ability to meet future water and sewer demands from population growth and economic development
- Identifies Capital Improvements needed and timelines
  - Task 1: General Project Administration (12 Months)
  - Task 2: Project Initiation & Data Gathering (0.5 Months)
  - Task 3: Gap Analysis (2.5 Months)
  - Task 4: Water Resource Opportunities (2.5 Months)
  - Task 5: Technology Identification & Screening (2.5 Months)
  - Task 6: Alternatives Analysis (2 Months)
  - Task 7: Recommendations (2 Months)



# Water & Sewer Readiness

- Engineering Complete
- Golden Leaf \$7.0M
- Dept. of Commerce Grant \$1.44M
- Easement Acquisition Nearly Complete
- Construction to Begin this Summer



# Emerging Contaminants

- PFOS / PFOA
  - EPA HAL of 70 ppt
  - Watershed Investigation and Draft Report Complete
  - State and GC DEH Sampling
    - Completed on December 18 and 19
    - 43 wells (41 properties) sampled
    - Results with Health Risk Assessments by end of January
- 1,4-Dioxane
  - Classified as “Probable Carcinogen”
  - Monitoring Monthly (treatment effluent)
  - State DEQ looking to regulate via city’s NPDES Permit
  - Completed significant, voluntary source reduction efforts with SIU’s
- Bromide
  - DWR continuing monitoring program for Cape Fear River Basin
  - Most detections in upper watershed around Greensboro and adjacent communities



# Miscellany

- Randolph County Water Purchase Agreement
- Water Shortage Response Plan
  - Greensboro Code of Ordinance Chapter 29.5

# Questions?

