

# CITY OF HIGH POINT

## AGENDA ITEM



<b>TITLE:</b> Public Services Departmental Overview	
<b>FROM:</b> Robby Stone, Public Services Director	<b>MEETING DATE:</b> February 19, 2024
<b>PUBLIC HEARING:</b> N/A	<b>ADVERTISED DATE/BY:</b> N/A
<b>ATTACHMENTS:</b> Public Services Department Presentation	

**PURPOSE:** Staff will provide an overview of the Public Services Department.

**BACKGROUND:** N/A

**BUDGET IMPACT:** N/A

**RECOMMENDATION/ACTION REQUESTED:** None.





CITY OF  
**high  
point.**

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# City of High Point Public Services Department

Council Presentation  
February 19, 2024



# Public Services Department

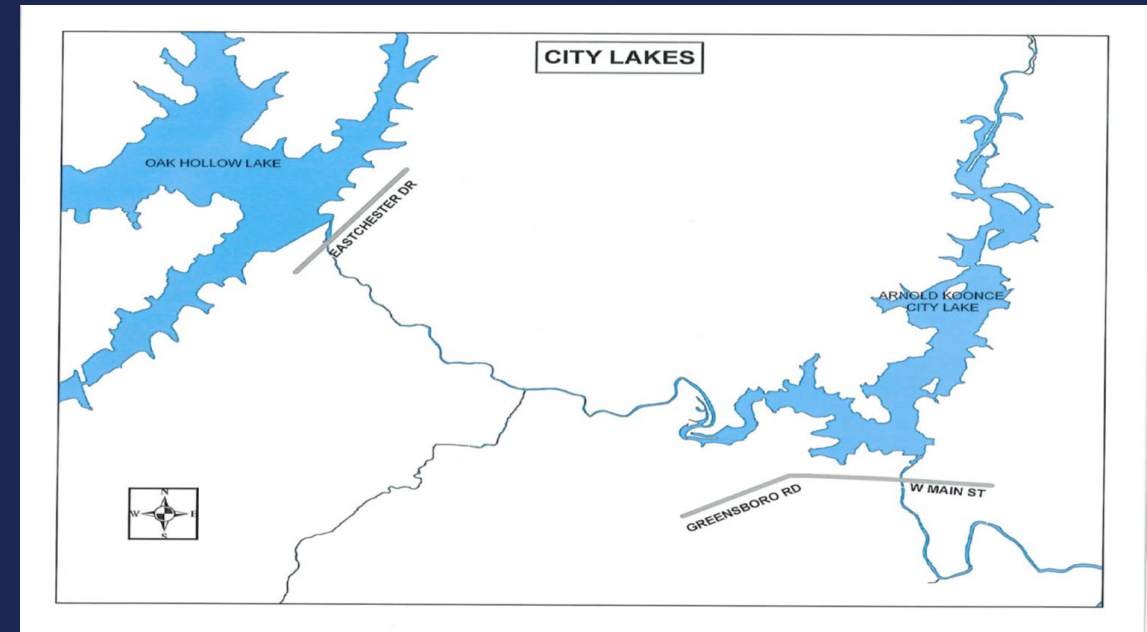
- Largest City Department
- 325 Budgeted Positions
- 16 Divisions
- 3 Separate Enterprises
- \$59M in Operational Budgets
- CIP projects in the range of \$500,00 to about \$40 million.

W/S Operational Administration  
Ward Water Treatment  
Eastside Wastewater Treatment  
Westside Wastewater Treatment  
Residuals Management  
Laboratory  
W/S Plant Maintenance  
W/S Mains

Public Works Administration  
Street Maintenance  
Cemeteries  
Stormwater  
Environmental Services  
Kersey Valley Landfill  
Ingleside Compost Facility  
Material Recovery Facility (MRF)

# Water Information

- Source Water
  - Arnold Koonce City Lake
  - Oak Hollow Lake
- 2 Raw Water Pump Stations
- 3 Elevated Water Storage Tanks
- 1 Ground Level Water Storage Tank
- Piedmont Triad Regional Water Authority (PTRWA) – Purchase Average of 2.28 MGD

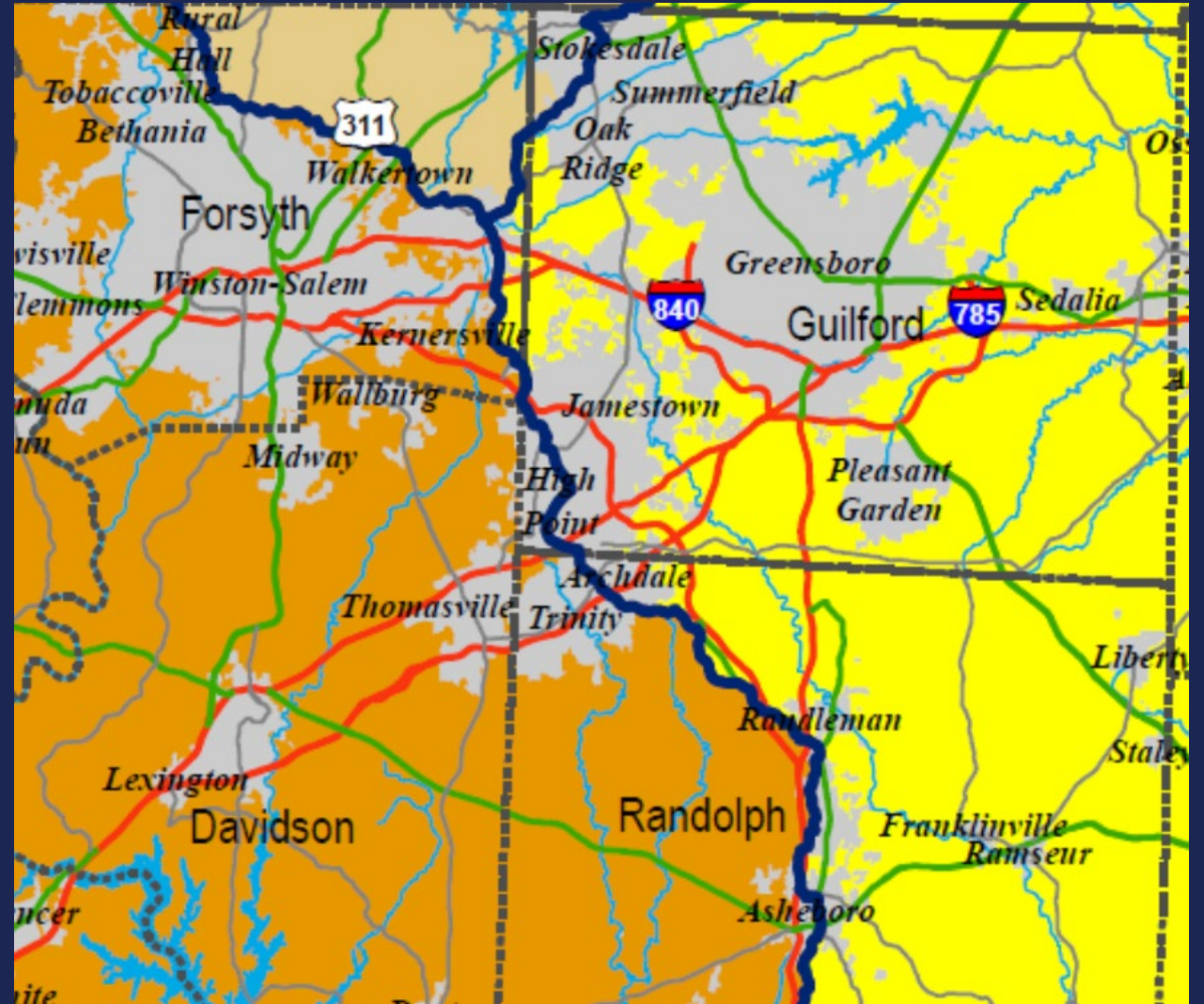




**Counties:** Guilford  
Randolph  
Davidson  
Forsyth

**River Basins:** Cape Fear  
Yadkin – Pee Dee

**2023 Population Estimate: 117,279**





# Ward Water Treatment Plant



Annual Average 13.4 Million  
Gallons per Day (MGD)  
Permitted for 24 MGD

Began Operation 1980  
17 FTE's



# Water/Sewer Mains



## **Distribution System:**

Water Accounts: 43,682

625 miles of water lines

Number of Water Main Breaks:

FY 2023	FY 2022	FY 2021
89	115	82

## **Collection System:**

Sewer Accounts: 41,744

677 miles of sanitary sewer lines

Number of Sanitary Sewer Overflows:

FY 2023	FY 2022	FY 2021
22	21	27

**47 FTE's**



# Eastside Wastewater Treatment Plant



Permitted for 26 MGD

16 FTE's

5 Stage Biological  
Nutrient Removal  
(BNR)

Partnership with  
Archdale, Jamestown  
and Sedgefield

Began Operating - 1920's  
Major Plant Upgrade -  
2005



# Westside Wastewater Treatment Plant



Permitted 10 MGD

13 FTE's

5 Stage BNR

Partnership with  
Trinity

Began Operating  
1930's

Major Upgrade  
2018



# Residuals Management



The Residuals Management Division processes and dewateres 45 million gallons of sludge per year for both the Eastside and Westside WWTPs

7 FTE's



# Water & Sewer Facilities Maintenance

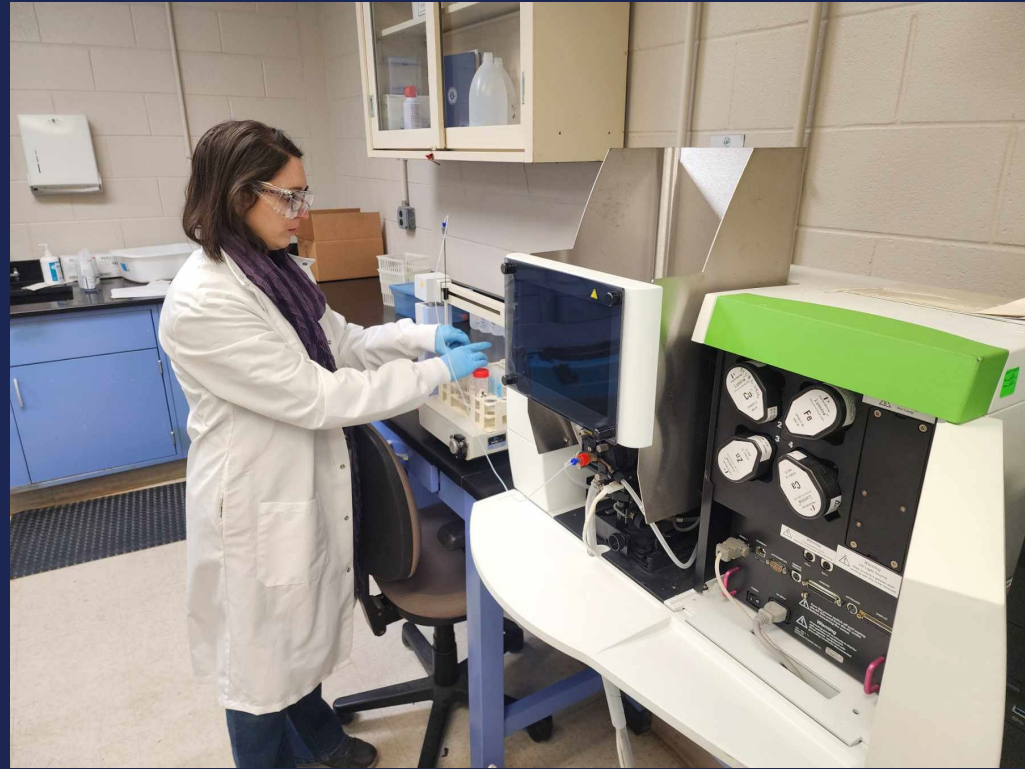
Provide Mechanical, Electronics  
& Electrical support

- 23 Lift Stations
- 2 Raw Water Pumping Stations
- Water Treatment Plant
- 2 Wastewater Treatment Plants
- 27 FTE's





# Laboratory Services



- Perform Testing for all Regulated Water and Wastewater Programs
- ~ 25,000 Tests per Year
- Assist with monthly compliance reporting
- 10 FTE's

# Environmental Services



- Garbage
- Recycling
- Yard Waste
- Bulk Waste
- ~49,000 collection points
- Weekend CBD crew
- Furniture Market
- 53 FTE's



# Material Recovery Facility



- Receives over 13,000 tons/year
- Plastics
- Cardboard
- Scrap Metal
- Paper
- Electronics
- Styrofoam
- Furniture Market
- 25 FTE's



# Ingleside Compost Facility



- Yard Waste
- 20,000 + tons/year
- Compost
- Wood Mulch
- Leaf Mulch
- Top Soil
- 6 FTE's



# Kersey Valley Landfill



- Municipal Solid Waste Disposal
  - ~ 150,000 tons/year
- Convenience Center
- White goods drop off
- Recycling Drop off
- 19 FTE's



# Stormwater Maintenance



- National Pollutant Discharge Elimination System (NPDES) Permit
- Maintenance in Right of Way (R/W)
- Clean/Inspect ~15,000 feet of pipe
- Sweep ~ 2,500 miles curb
- Pond inspections
- Dam inspections
- Illicit Discharges and spills
  
- 27 FTE's



# Street Maintenance



- Maintenance in R/W
  - ~450 centerline miles
  - ~3 miles gravel streets
  - Potholes
  - Paving
  - R/W Mowing
  - Concrete repairs
  - Loose Leaf collection
  - Snow Plowing/Salting
- 
- 40 FTE's

# Cemeteries



- Oakwood
- Greenhill
- Kersey Valley
- 4 FTE's



# Capital Projects



## Eastside WWTP Projects

Ultra Violet Disinfection  
Upgrade and Primary Clarifier  
Drain Pump Station

Engineer's Estimate - \$9.7M

Low Bid - \$16.2M

Eastside PLC and SCADA  
System Upgrades

Engineer's Estimate - \$1.3M



# Registers Creek Lift Station



Construction of a new lift station with a peak capacity of 4.2 MGD and approximately 16,577 LF of 18-inch force main.

Replaces an existing station

Cost - \$8.5M



# City Lake Dam Replacement



The dam is nearly 100 years old and constructed before modern safety standards were developed.

Does not meet current NC DEQ Dam Safety requirements for stability or spillway capacity.

Design Underway

Estimate - \$30M +





# Focus Areas Present and Future

- **Regulatory Compliance**

- Emerging Contaminants
  - PFOA/PFAS (Forever Chemicals)
- Lead and Copper Rules and Revisions (LCRR)

- **Aging Infrastructure**

- Improved CIP Planning – Implementation of water and sewer master plans
  - Capacity
- Rehabilitation of existing infrastructure

- **Increased Construction Costs**

- **NCDOT Maintenance Responsibilities**



# Focus Areas- continued

- **Staffing Challenges** - Ongoing struggle to find experienced employees
  - One Day Hiring Events
  - GAP-Guilford Apprenticeship Partners - Electronics Tech., Electrician, and Plant Mechanic
  - Salary Study
- **Future / Current Growth Areas**
  - Sewer Capacity
  - Currently updating Sewer Master Plan
  - Potential Eastside WWTP Expansion- 32MGD ~\$40 million

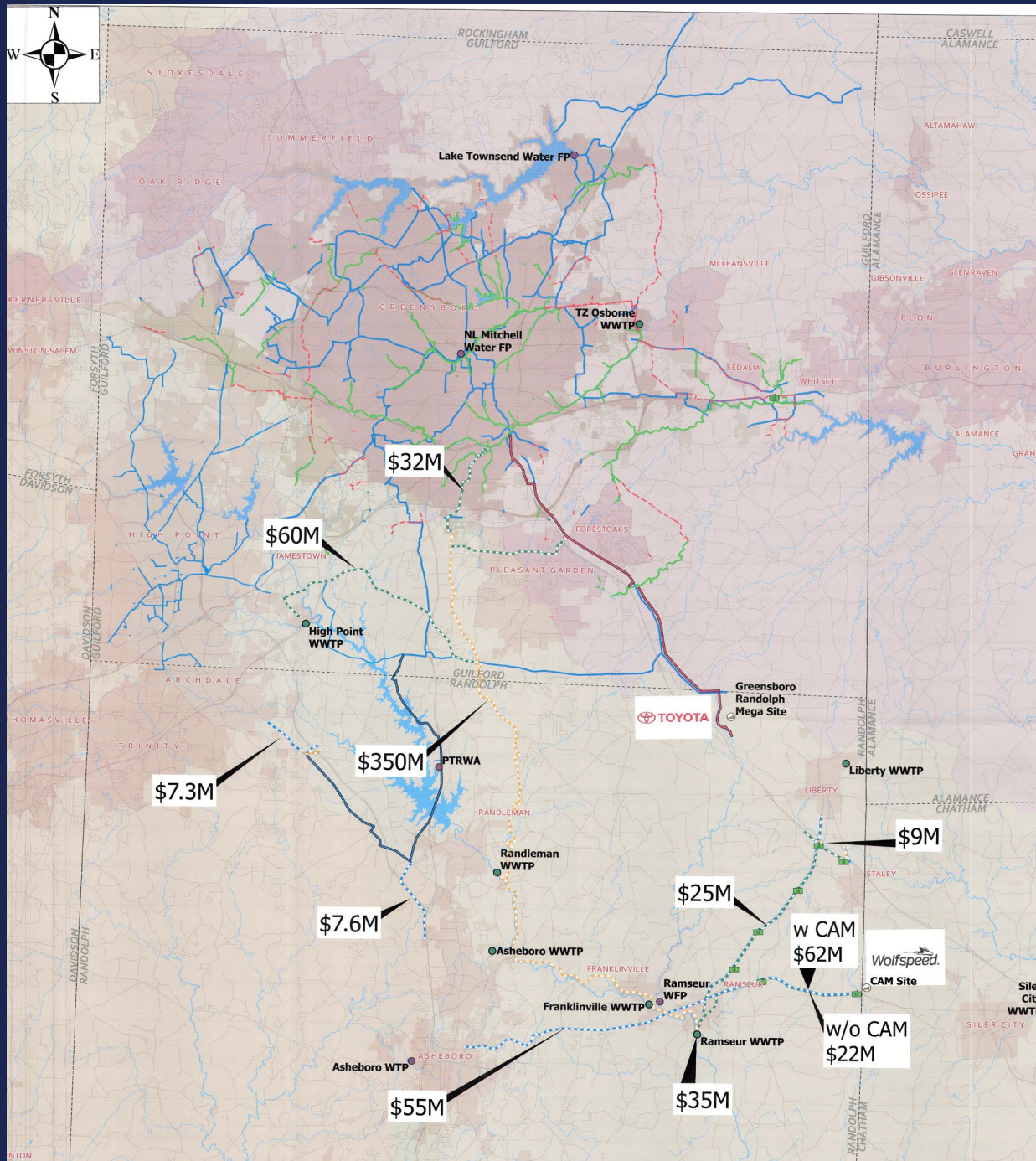




# Focus Areas- continued

- **Regional Wastewater Discussion**

- PTRWA
  - Greensboro
  - Archdale
  - Asheboro
  - Jamestown
  - Liberty
  - Randolph County
  - Randleman
  - Ramseur
  - Franklinville
  - Others
- State led effort to study regional wastewater needs due to economic development growth.



# Regionalization Focus Areas





# Thank You

Questions?