

# CITY OF HIGH POINT

## AGENDA ITEM



|   |                                     |
|---|-------------------------------------|
| <b>TITLE:</b> Regional Water Resources                    |                                     |
| <b>FROM:</b> Damon Dequenne, Assistant City Manager       | <b>MEETING DATE:</b> August 5, 2024 |
| <b>PUBLIC HEARING:</b> N/A                                | <b>ADVERTISED DATE/BY:</b> N/A      |
| <b>ATTACHMENTS:</b> Regional Water Resources Presentation |                                     |

**PURPOSE:** Provide City Council information on city participation in regional discussions regarding water and sewer infrastructure planning and studies.

**BACKGROUND:** In May, the State of North Carolina Department of Environmental Quality completed the Regional Water and Wastewater Infrastructure Concept Plan for the US 421 Corridor. The study was designed to evaluate current and future utility needs in the corridor and to provide estimates and options for meeting those needs in the future. Prior to the report being completed, and since its completion, regional providers have been working to collaborate and evaluate interim and long term solutions to various challenges associated with water and sewer service provision such as capacity, contaminants, and coordinated planning.

**BUDGET IMPACT:** N/A

**RECOMMENDATION/ACTION REQUESTED:** Presentation and information item only.





•  
•  
•

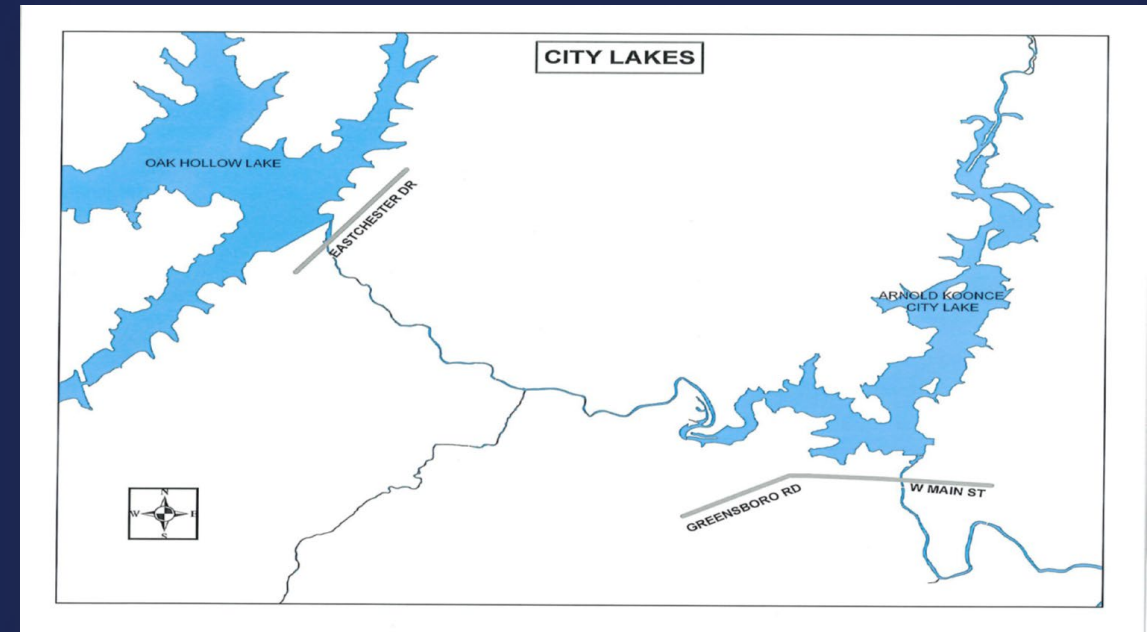
# Regional Water Resources

CITY OF  
**high  
point.**

August 5, 2024

# High Point Water

- **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) – Average of 2.28 MGD**



# Ward Water Treatment Plant



**Annual Average 13.4 Million  
Gallons per Day (MGD)**

**Permitted for 24 MGD**

**Began Operation 1980**

# ● Eastside Wastewater Treatment Plant



Permitted for 26 MGD

Average Flow 14.75  
MGD

5 Stage Biological  
Nutrient Removal  
(BNR)

## **Interlocal Agreements**

Archdale – 2.5 MGD

Jamestown – 2 MGD

Sedgefield - 0.225 MGD

Began Operating - 1920's

Major Upgrade - 2005

# Westside Wastewater Treatment Plant



Permitted 10 MGD

Average Flow 3.5 MGD

5 Stage BNR

**Interlocal Service Agreement**

Trinity - 1 MGD

Began Operating  
1930's

Major Upgrade 2018



# The Region

- **PTRWA History**

- Founded in the late 80's
- Construction of Randleman Lake Dam
- Water Treatment Plant – 12 MGD

- **Founded by six communities**

- Greensboro – 53.08% - 6.37 MGD
- High Point – 19.00% - 2.28 MGD
- Randleman – 8.33% - 1.00 MGD
- Randolph County – 10.42% - 1.25 MGD
- Jamestown – 3.33% - 0.4 MGD
- Archdale – 5.83% - 0.7 MGD



# Regional Topics

- **Regulatory Compliance**

- PFOA/PFAS (Forever Chemicals)
- Nutrient Limits – Effects on receiving waters
- Expansion of PTRWA Water Treatment plant

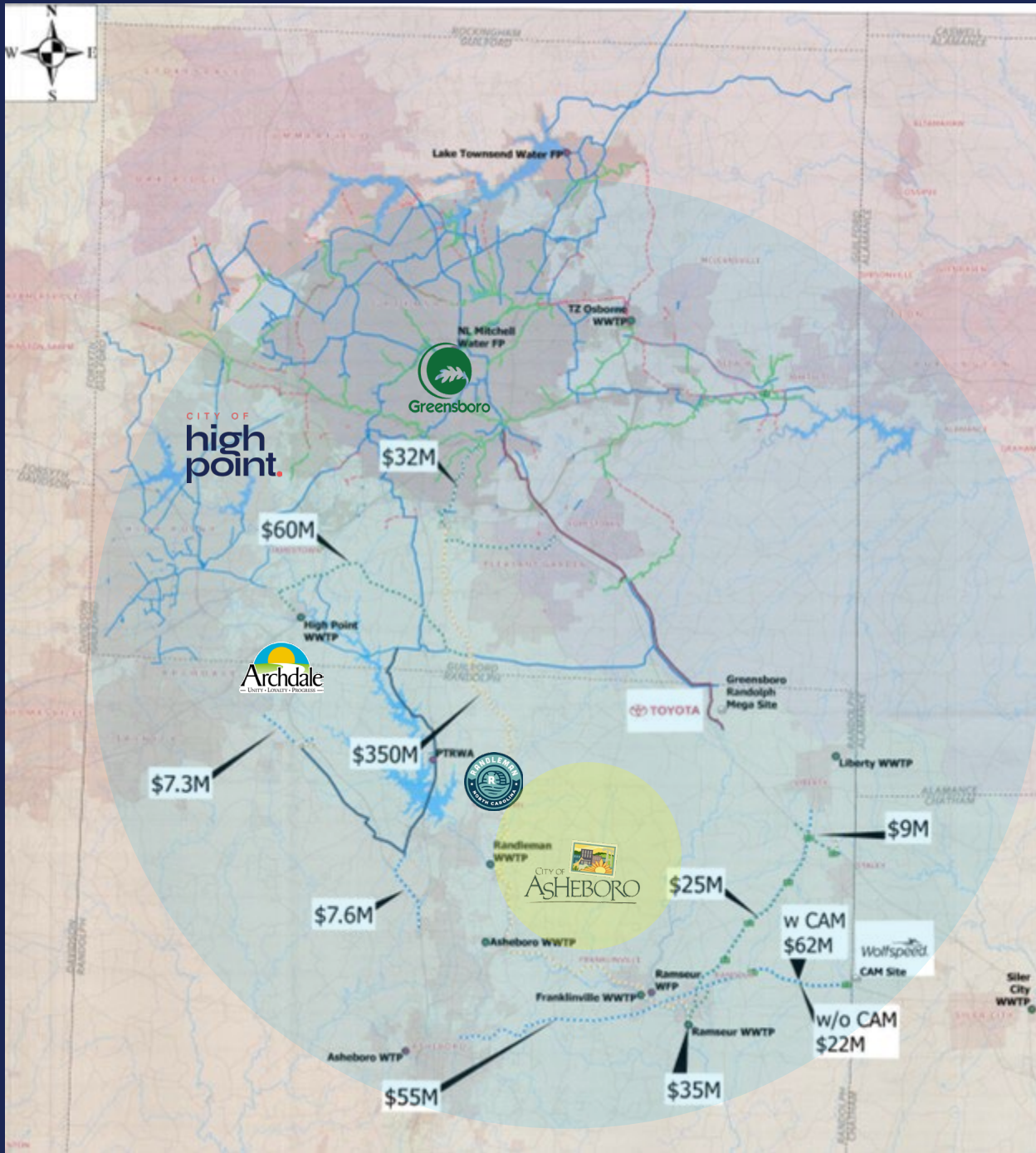
- **Future / Current Growth Areas**

- Sewer Capacity and Service – PTRWA Leading Discussions

- **Regional Water and Wastewater Conceptual Plan (US 421 Corridor)**

- State funded and completed in May 2024
- Provides various recommendations and options





# REGIONALIZATION FOCUS AREAS

# • Regional Discussions

- **Regional Wastewater Discussion**

- PTRWA members
- Asheboro
- Liberty
- Ramseur
- Franklinville

- **Regional sewer solution(s)**

- **Feasibility of regional facility in Asheboro and membership in PTRWA**



# Regional Discussions

- **Upcoming Considerations and Updates**

- Feasibility of Asheboro joining PTRWA - Agenda Item
- City participation in Water Treatment Upgrades
- PFAS
  - Settlements, litigation, treatment
- Other Emerging Contaminants



THANK YOU

QUESTIONS?