

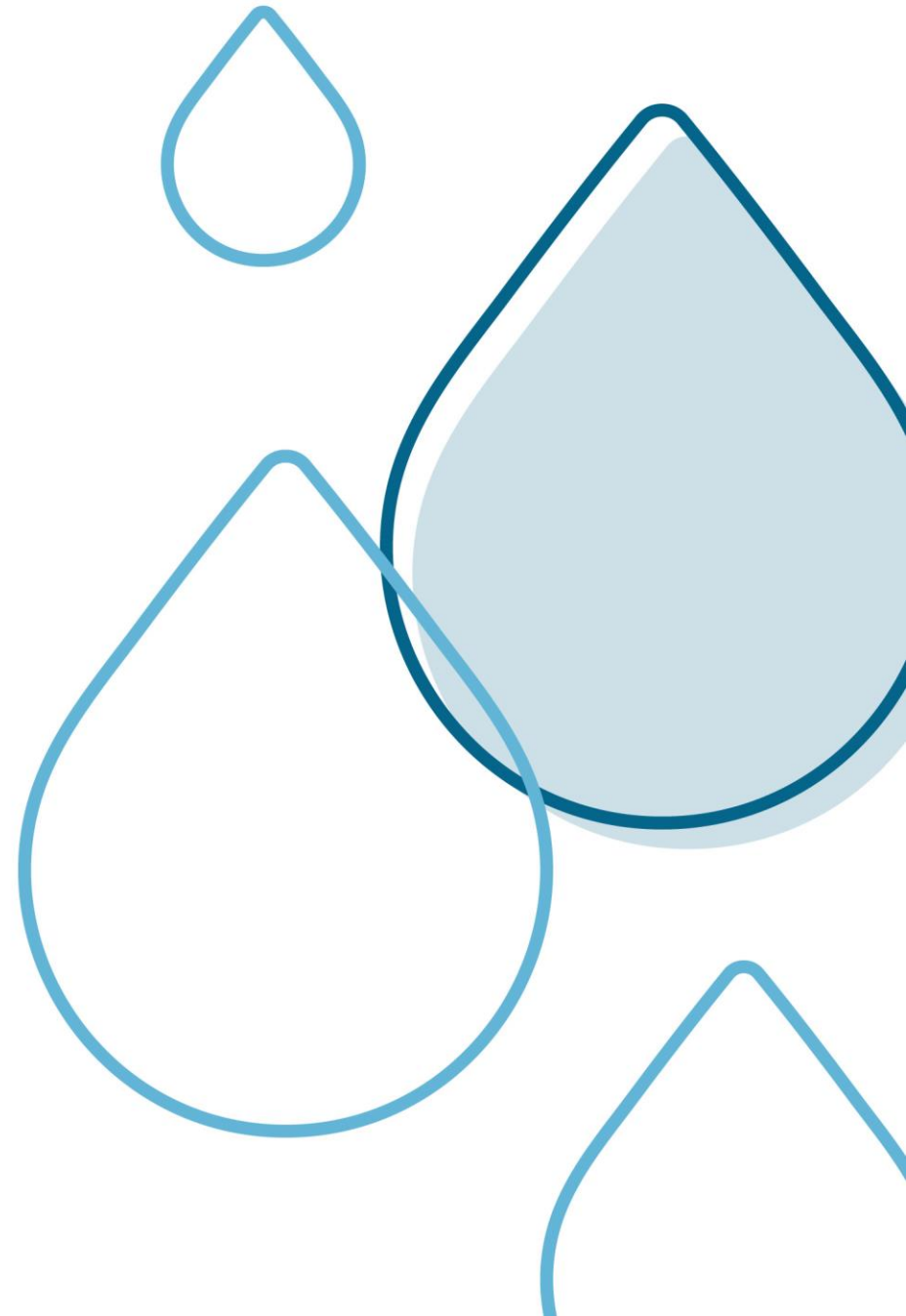
Wake County One Water Plan

Economic Strength,
Growth and Sustainability

August 18, 2025




**Why Does
This Matter?**



A photograph of a modern, multi-story building with a glass facade, partially obscured by lush green trees. The building's glass reflects the sky and surrounding foliage. The text "Economic Development" is overlaid in white, bold, sans-serif font in the center of the image.

Economic Development

A photograph of a large-scale agricultural irrigation system. Multiple nozzles are spraying water in a grid pattern over a vast field of young corn plants. The plants are arranged in neat rows, and the water creates a misty atmosphere. The word "Agriculture" is overlaid in the center in a large, white, sans-serif font.

Agriculture




Affordability

A photograph of a server room with rows of black server racks. Each rack is filled with blue server components. The racks are arranged in a long row, and the perspective is from the front, looking down the aisle. The text "Artificial Intelligence" is overlaid in the center in a large, white, sans-serif font.

Artificial Intelligence



Flooding

A landscape photograph illustrating the effects of drought. The foreground is dominated by parched, brown earth that has cracked into large, irregular polygonal blocks. In the middle ground, a small, shallow pool of water reflects the sky, surrounded by more cracked soil. The background features a line of tall, dry grasses and a dense row of green trees under a clear, bright blue sky.

Drought

A photograph of a forest fire. Bright orange and yellow flames are visible at the base of several trees, with some fire reaching up the trunks. The background is filled with smoke and more trees. The word "Fire" is overlaid in white text in the center of the image.

Fire

1. Population

- Wake County population projected to **double** by 2070
- Demand for municipal water supply within Wake County will **more than double**
- Land use resulting in the **loss of open space, forests and agricultural land**



2. Increasing Weather Extremes

- **Higher** temperatures
- **More** droughts and **worse** flooding



In The News

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Donate

Toxic chemicals found in fish in Jordan Lake and Haw River

WUNC | By [Celeste Gracia](#)

Published August 20, 2024 at 5:06 PM EDT








The New York Times



Severe Flooding in North Carolina After Chantal Dumps Heavy Rain

The storm flooded roads, downed trees and stranded residents across the central part of the state. It is headed northeast toward Washington, D.C., and Maryland.

 Listen to this article · 7:03 min [Learn more](#)

 Share full article   314



Accessibility | Maps | Departments | UNC Search






UPDATE: Due to water emergency, fire safety concerns, campus closed at 1 p.m.

Dear Students, Faculty and Staff:

As previously announced, due to the emergency water shortage declared by the Orange Water and Sewer Authority (OWASA) and serious concerns about the safety implications on campus in the event of a fire, **the University has closed effective at 1 p.m. today.**

12

In The News




AUSTIN

SELECT A TAG


Austin

TEXAS BATTLES AI INDUSTRY'S RISING WATER DEMAND AS DATA CENTERS STRESS SCARCE RESOURCES

 Ryan Anderson

April 27, 2025

Source: IMarcoHerrera, CC BY-SA 4.0, via Wikimedia Commons



The New York Times

Arizona Limits Construction Around Phoenix as Its Water Supply Dwindles


In what could be a glimpse of the future as climate change batters the West, officials ruled there's not enough groundwater for projects already approved.

 Share full article





 1.7K





WATCH





CLIMATE IN CRISIS

Arizona limits new housing around Phoenix because of dwindling water supply

Officials said developers could still build in the affected areas but would need to find alternative water sources to do so – such as surface or recycled water.



One Water Plan

- 50-year water supply plan
- Integrates water planning with development and transportation planning
- Supports a growing population while preserving limited natural resources





One Water:

By the Numbers

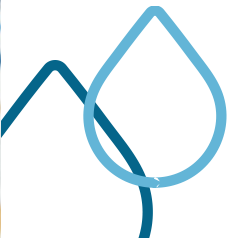
2,871 responses to
two public surveys

1,272 stakeholder contacts

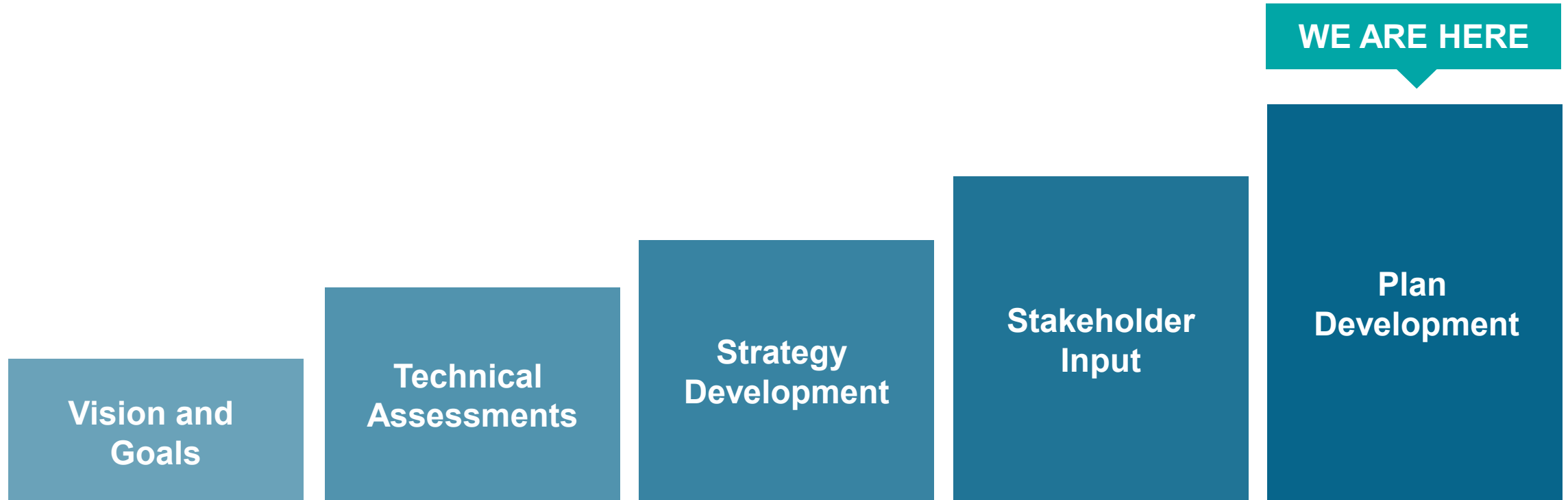
501 attendees at **19** meetings

248 participants at **10** sector-
specific stakeholder meetings

57 professionals at the
One Water Vision Summit



Project Approach



One Water Focus Areas

1. Optimized Water Supply
2. Water Quality and Hydrology Improvement
3. Land Conservation and Preservation
4. Flood Resilience



Plan will increase resilience and mitigate...



Stormwater Volume



Flooding Frequency



Dry Streams



Dry Wells



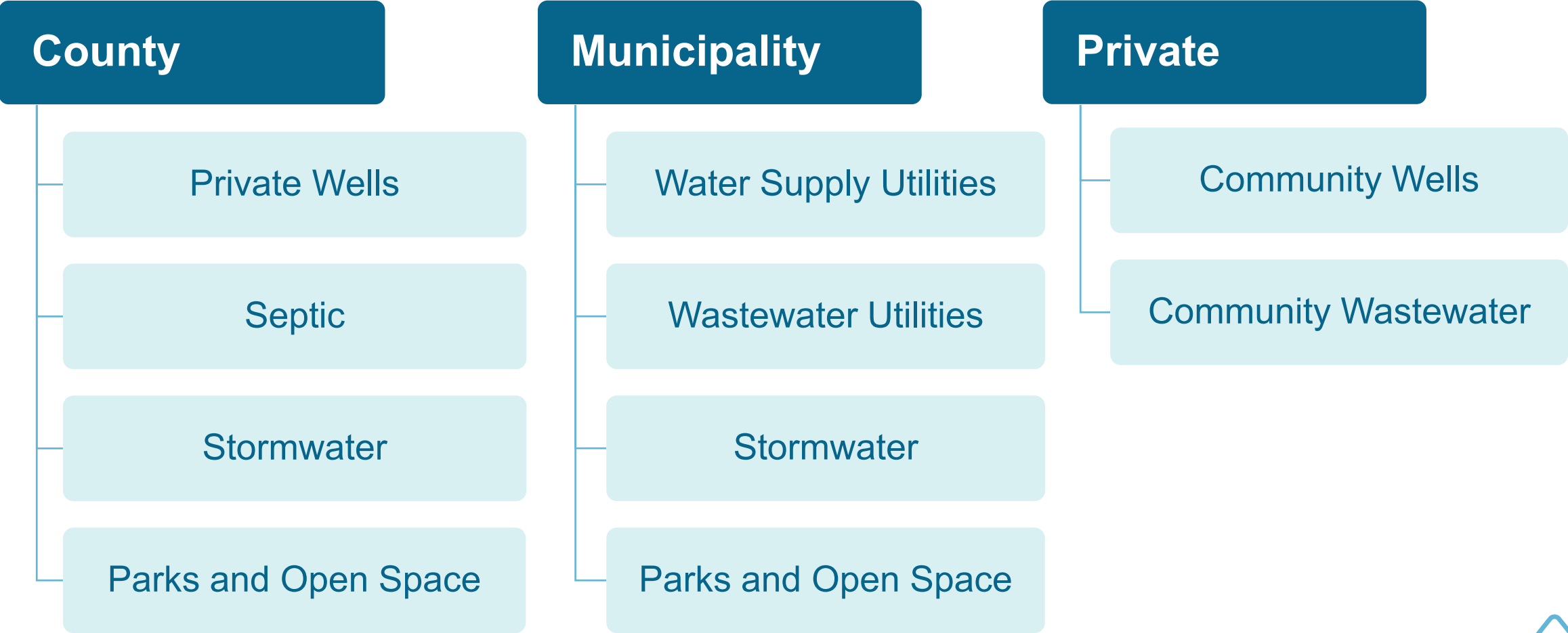
Pollution from Storms



Loss of Open Space

...if we all work together.

Roles and Responsibilities



Wake County Water Partnership

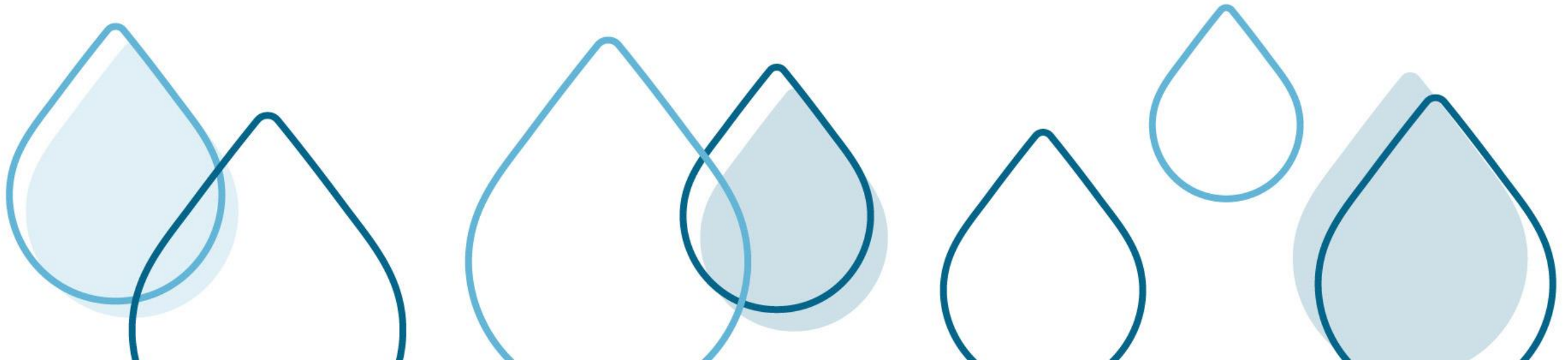
- Environmental Advocacy
- Private Water Provider
- Municipal Representatives (12)
- Citizen Appointees (4)
- Private Well Owner
- Wake Soil & Water Conservation District
- Agricultural Community
- Academic Expert
- Building and Real Estate
- County Staff (Non-Voting)

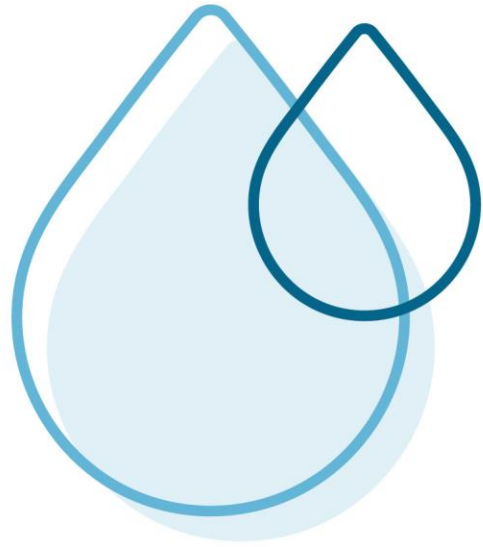


What do we need from you?

- Join us on a field trip to Walnut Creek Wetland Park!
- Share the Draft Plan on social media and when talking with members of your community
- Endorse the Final Plan in early 2026 and champion implementation of recommended strategies

Questions?





Presenter Information

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Hazen



TETRA TECH

