



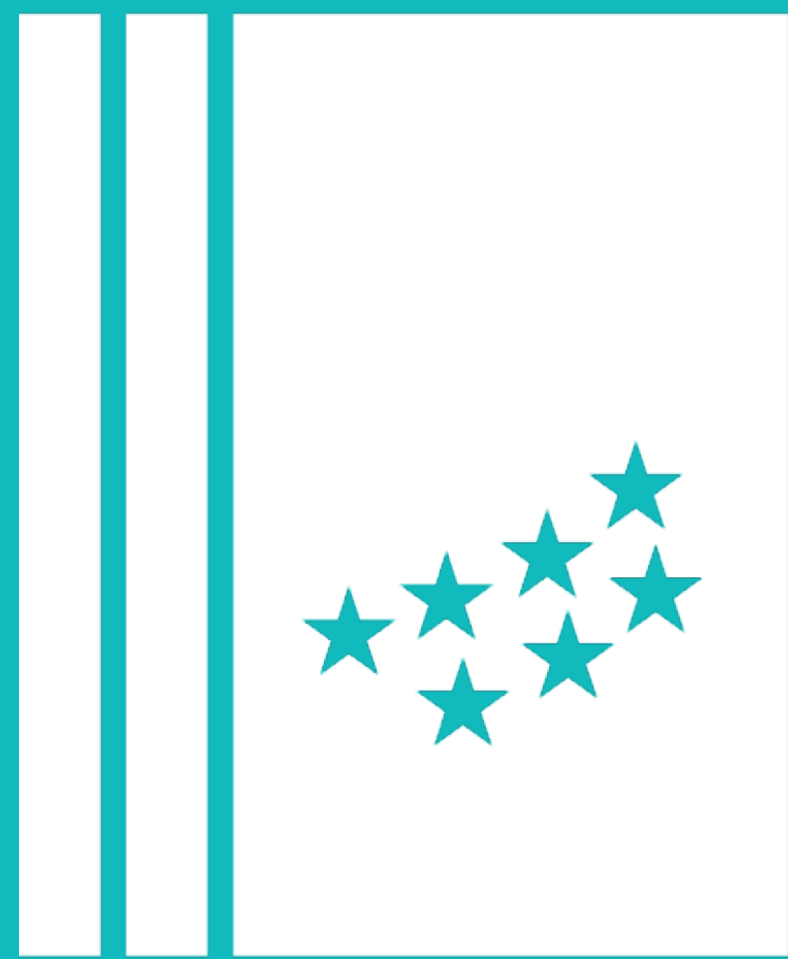
Western Intake Partnership

**Welcome to the Jordan Lake Water
Supply Project Open House!**



**Western Intake
Partnership**

Meet the Partners



**CITY OF
DURHAM**

The City of Durham is dedicated to providing high quality drinking water to our customers and protecting the environment through effective water reclamation.



The Town of Pittsboro is responsible to the community we serve while producing safe and pleasant drinking water, utilizing all resources wisely and working for the greater good of those we serve.



Chatham County's mission is to protect and manage our water supply and to provide the highest possible quality of water and service.



**ORANGE WATER AND
SEWER AUTHORITY**

Orange Water and Sewer Authority is Carrboro-Chapel Hill's not-for-profit public service agency, delivering high-quality water, wastewater, and reclaimed water services.



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Project Overview

Current Use

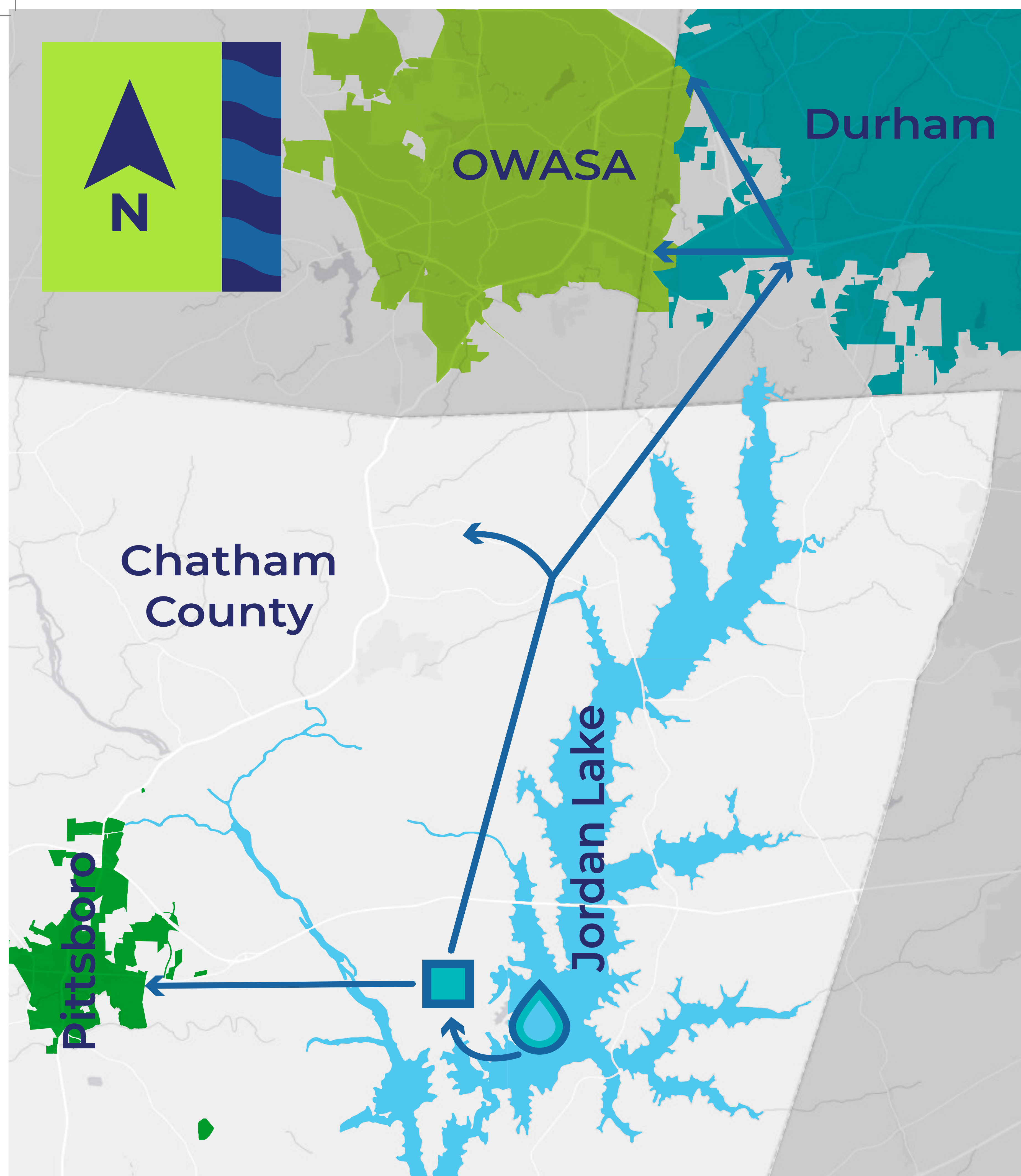
Jordan Lake is a reservoir west of Raleigh and south of Durham in Chatham County. It currently supplies water to surrounding communities. The lake is a popular place for recreation, and it provides fish and wildlife habitats. Operations at Jordan Lake also help control flooding and meet downstream water needs. All this makes the lake a vital regional resource.

Growth in the Region

The Triangle region is growing. To support this growth, the WIP aims to secure a long-term water supply for the City of Durham, Town of Pittsboro, Chatham County, and OWASA customers by providing access to their existing State-authorized water supply allocations in Jordan Lake.

Planning for the Future

This project will provide access to the lake's water supply while protecting its other uses and natural resources – all to benefit our communities. Water will be withdrawn from the western side of Jordan Lake. This water will then be treated and connected to regional distribution systems.



Legend



Water Treatment Facility



Water Supply Pipelines



Water Supply

Project Components



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Water Intake and Treatment Facility

A new raw water intake and pump station on the west side of Jordan Lake, a regional water treatment plant on property currently owned by one of our member utilities, and a water supply pipeline connecting them.



Drinking Water Supply Pipelines

Regional water supply pipelines to deliver treated water to our communities.



Booster Pumping Stations

Facilities that maintain water pressure and movement through the water supply pipelines and connect them to existing Partner water distribution systems.



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Project Schedule

The project is planned to proceed in three phases. We are aiming to make the facilities operational by 2031. Our anticipated schedule is shown below and subject to change.



Planning & Permitting
2020-2024

WE ARE HERE



Design & Bidding
2024-2027



**Construction
& Start-Up/
Commissioning**
2027-2031

Water Supply Need

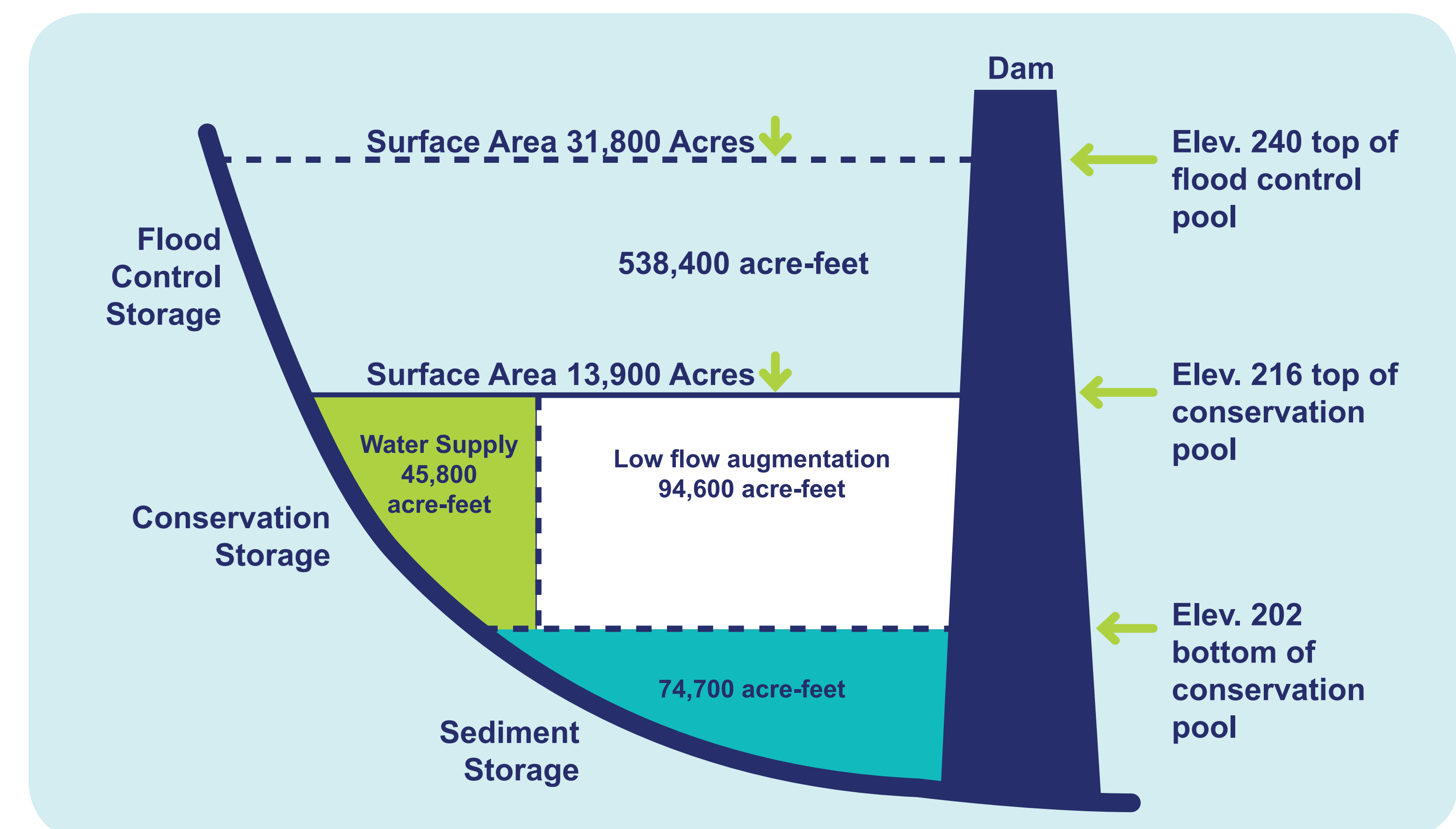
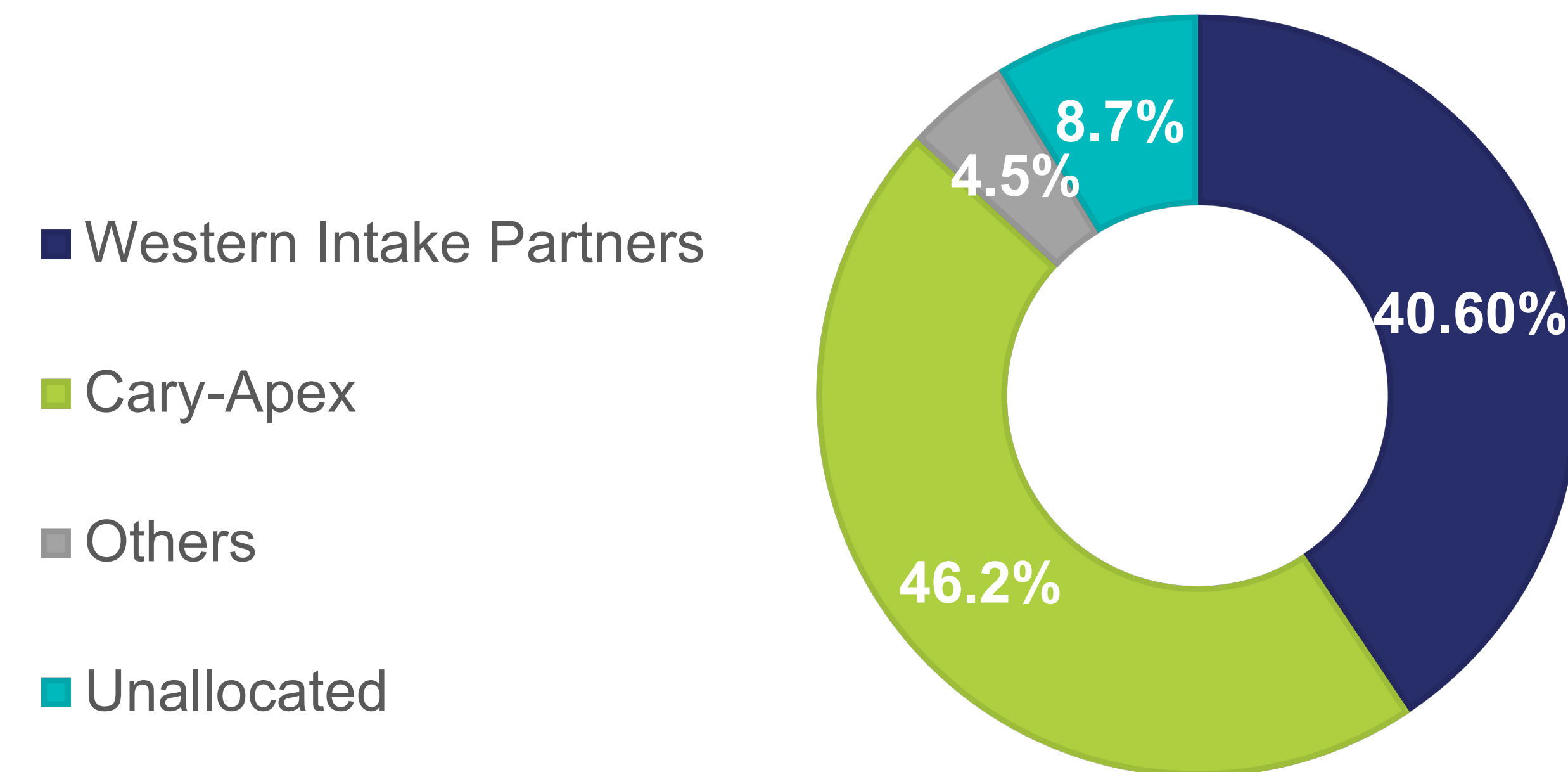


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The purpose of the Jordan Lake Water Supply Project is to achieve the following objectives:

- **Access water from Jordan Lake** which was allocated to the WIP Partners for water supply by the State of North Carolina.
- **Meet the projected water demand** in the WIP Partners' service areas by increasing raw water supply and treatment capacity.
- **Improve regional water supply reliability and resiliency** by increasing the capacity to withdraw state-allocated water supply from a new raw water intake structure on the west side of Jordan Lake.
- **Provide high quality drinking water** that meets the requirements of the Safe Drinking Water Act and the North Carolina Drinking Water Act with a state-of-the art water treatment facility that is designed to treat for contaminants of emerging concern including 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS).

JORDAN LAKE WATER SUPPLY ALLOCATIONS





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Water Intake and Treatment Facility

The Water Intake and Treatment Facility is being designed to meet Partner needs through 2050, but will ensure that it can be expanded to meet needs through 2070 and beyond. Pilot testing is being conducted to develop a state-of-the-art technology to treat for contaminants of emerging concern. The Facility is made up of several components, including:



**A new raw water intake
and pump station on
the west side of
Jordan Lake.**



**A water supply pipeline
to transport water
from the intake to the
treatment facility.**



**A regional water
treatment plant.**

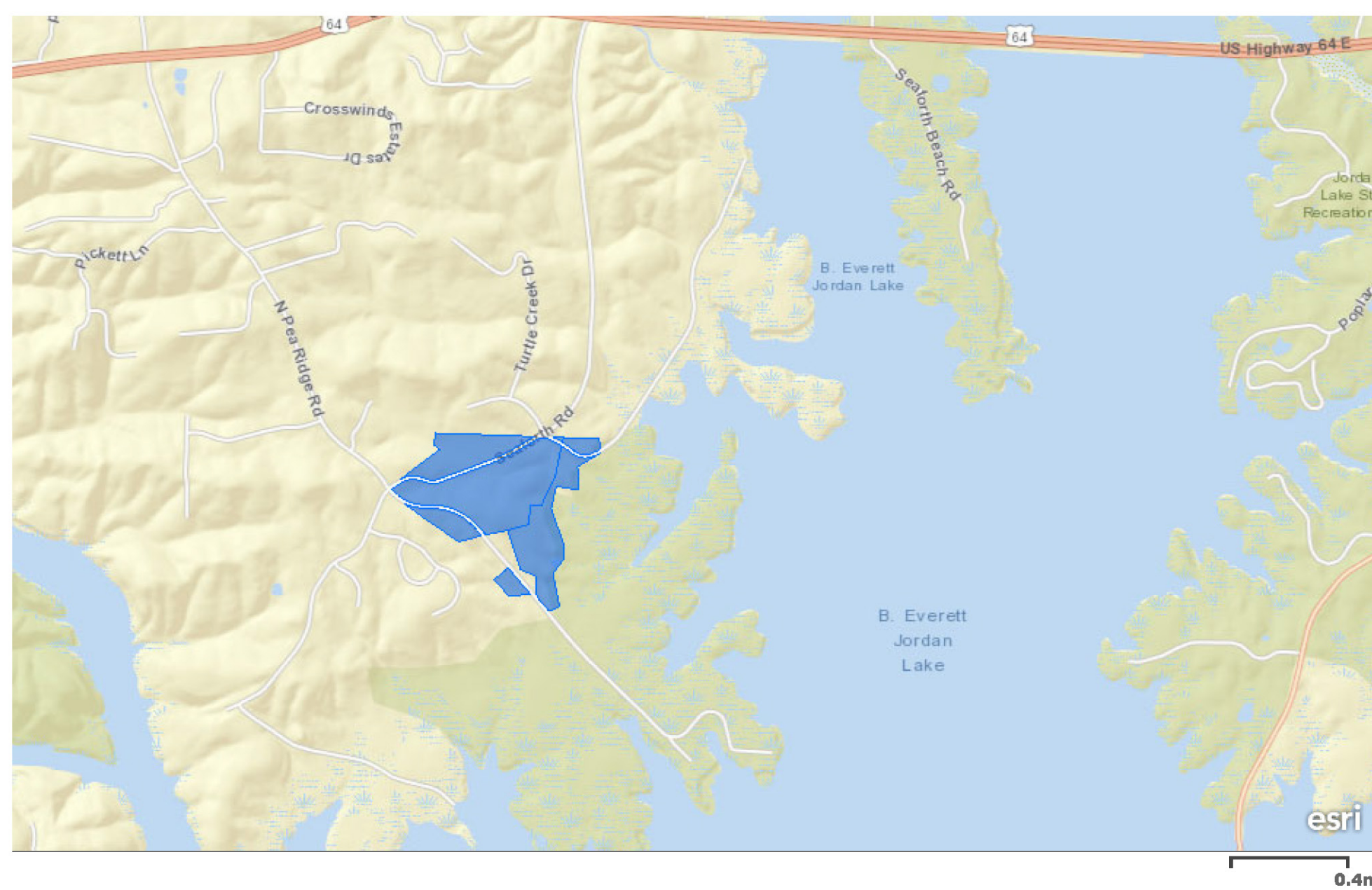


Water Intake and Treatment Facility

State-of-the-Art Facility

The proposed project would be a state-of-the-art Water Treatment Facility. In addition to the structures for the treatment process (intake station, pump station, pipeline and treatment plant), other components would include:

- Administration Building
- Maintenance Building
- Electrical building and generators for backup power
- Storage tanks
- Lighting, parking, and fencing

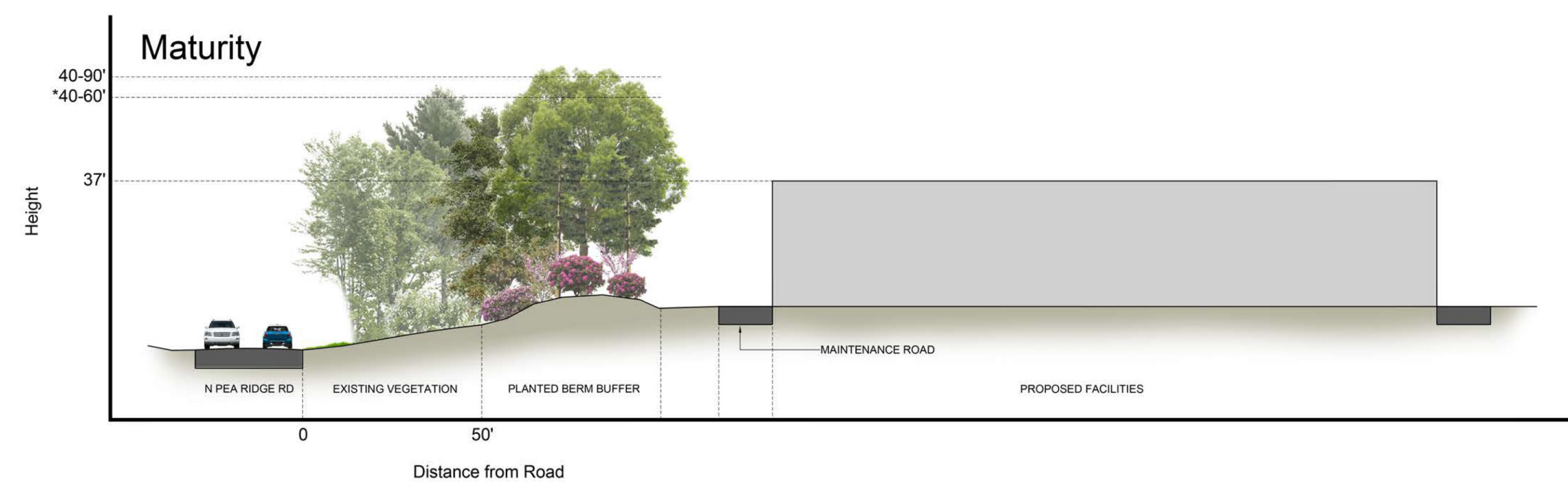
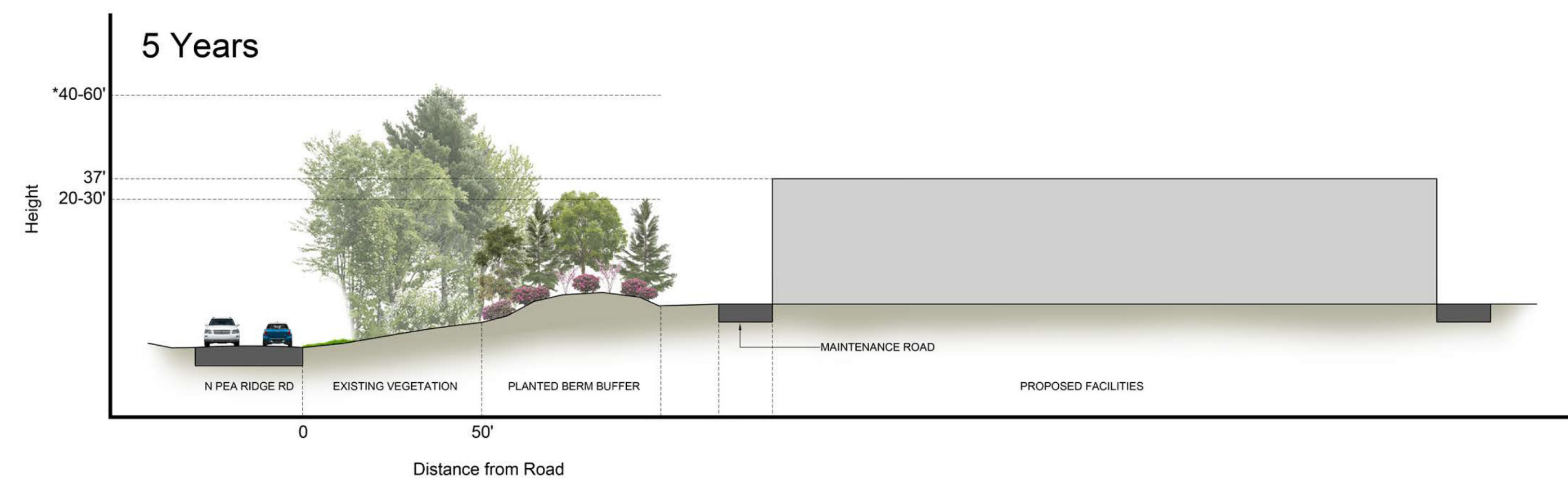
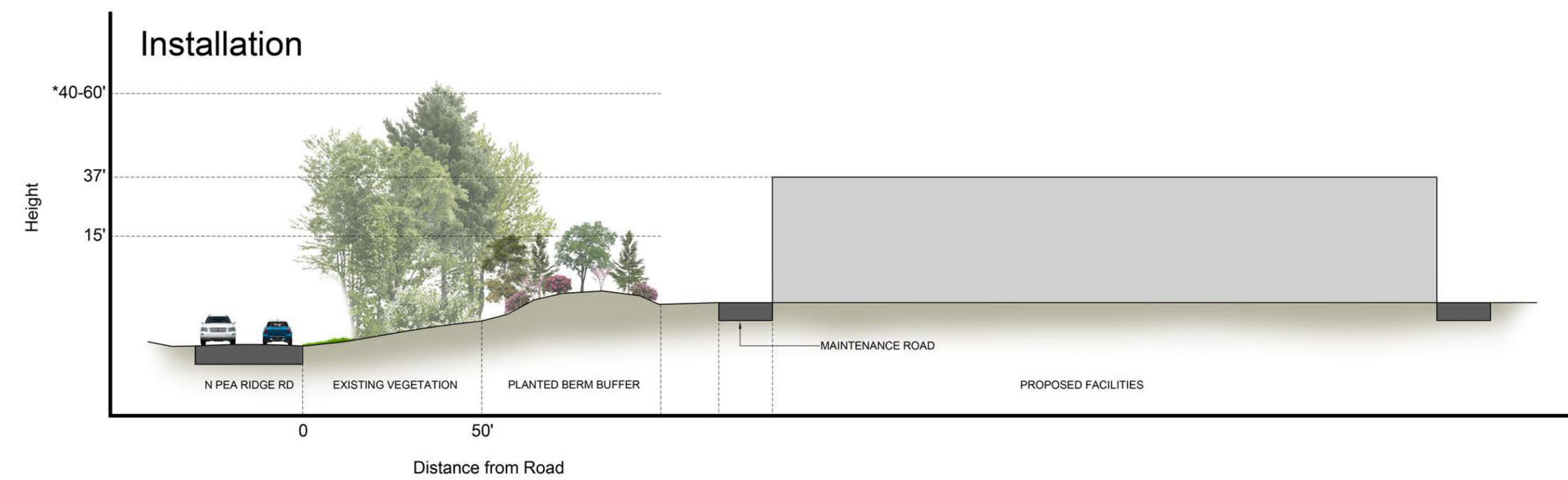


Town of Cary, State of North Carolina DOT, Esri, HERE, Garmin, INCREMENT P, NGA, USGS

Map of the facility property at the intersection of Seaforth Road and North Pea Ridge Road

Vegetation Buffer Plans

The Facility design will seek to minimize impacts on neighbors and the state park with vegetated buffers. You can see how these buffers would look over time along North Pea Ridge Road below.



*Height estimate of existing vegetation to be confirmed

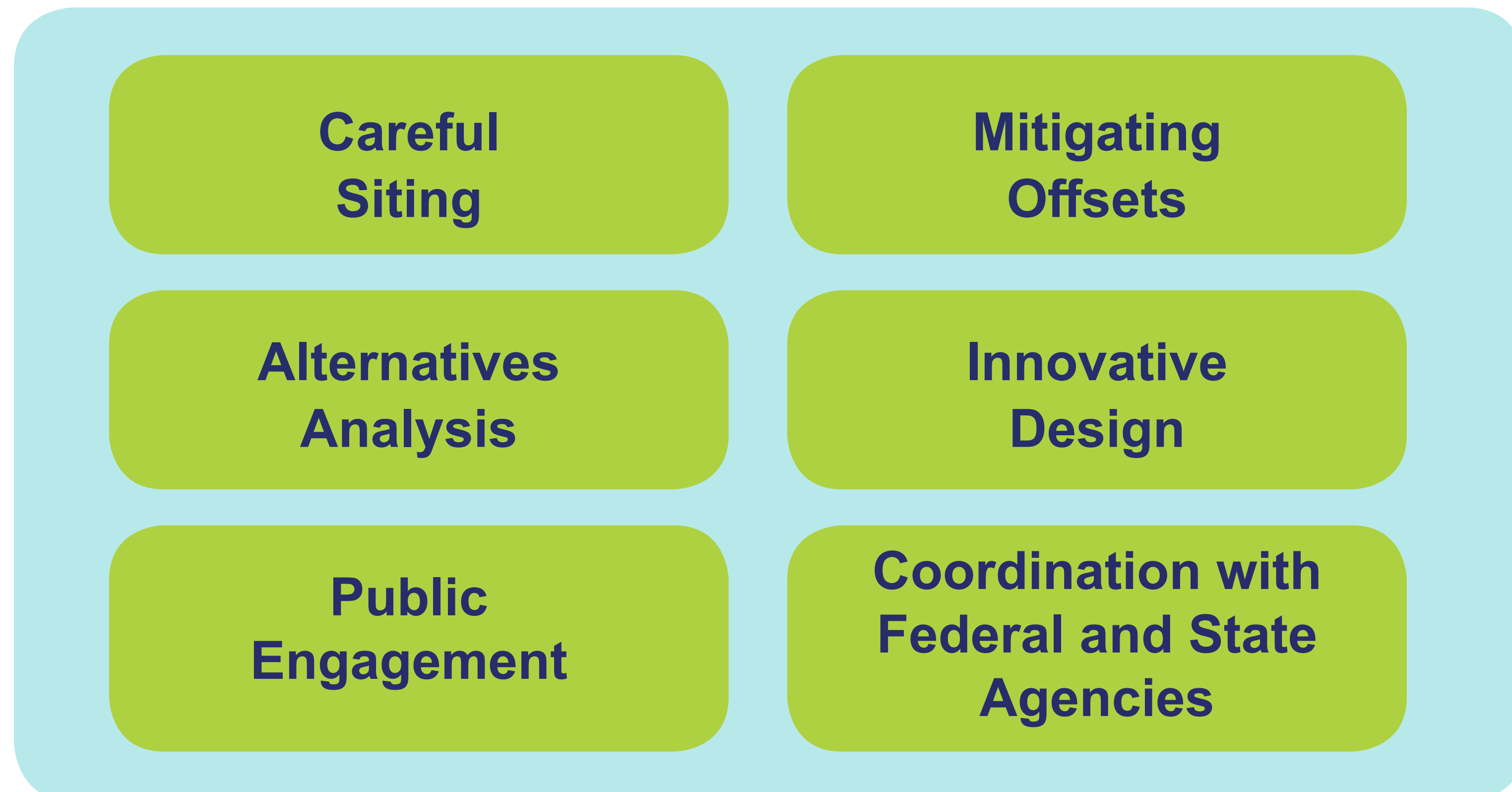
Environmental Approach



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Partnership

Consistent with its values, the Western Intake Partnership seeks to achieve responsible, balanced development of its water supply by first avoiding and then minimizing adverse impacts to natural and human resources.

We achieve this through...



Quality ♪ Sustainability ♪ Transparency ♪ Equity ♪ Partnership



Resources Under Evaluation



Wetlands, Streams, Lakes, and Groundwater

- Identify locations, types, and conditions
- Water quality and quantity considerations



Listed Species and their Habitats

- Upland and aquatic species
- Animals and plants



People

- Architectural and engineering structures
- Archaeological and historic resources
- Cemeteries and graves
- Recreation, noise and traffic



Environmental Justice Considerations

- Fair treatment and opportunities for meaningful involvement of all people

Environmental Permitting & Approvals



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U.S. Army Corps of Engineers/Federal Agencies

- Two separate easements to occupy federal property surrounding Jordan Lake
- Clean Water Act Section 404 Authorization – permit for minor activities in streams or wetlands
- Each Corps approval must comply with the National Environmental Policy Act (NEPA)
- Compliance with Endangered Species Act
- Compliance with National Historic Preservation Act



State of North Carolina

- NC Division of Water Resources (DWR)
 - » Water Quality Certification
 - » Jordan Lake Water Supply Riparian Buffer
- NC Department of Energy, Minerals, and Land Resources (DEMLR)
 - » Erosion and Sediment Control Permit
 - » National Pollutant Discharge Elimination System (NPDES) Construction General Permit for stormwater
 - » NPDES Individual Permit for water treatment facility



Chatham and Durham Counties

- Re-zoning of Water Treatment Facility site
- Compliance with Land Development, Watershed Protection, and other applicable ordinances

Public Input on Environmental Issues

Federal, state, and local agencies all welcome public input on the permit applications they review. Specific opportunities for providing comments will be made available as applications are received and reviews begin. These opportunities will be posted on the WIP website.

The WIP welcomes public input at any time and may respond directly to the commentor, and/or forward comments to the appropriate agencies.





**Western Intake
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Communications

How to Submit a Comment



Submit a comment on the website westernintakepartnership.com using the online comment form.



Submit your comments in person today at our Public Open House.



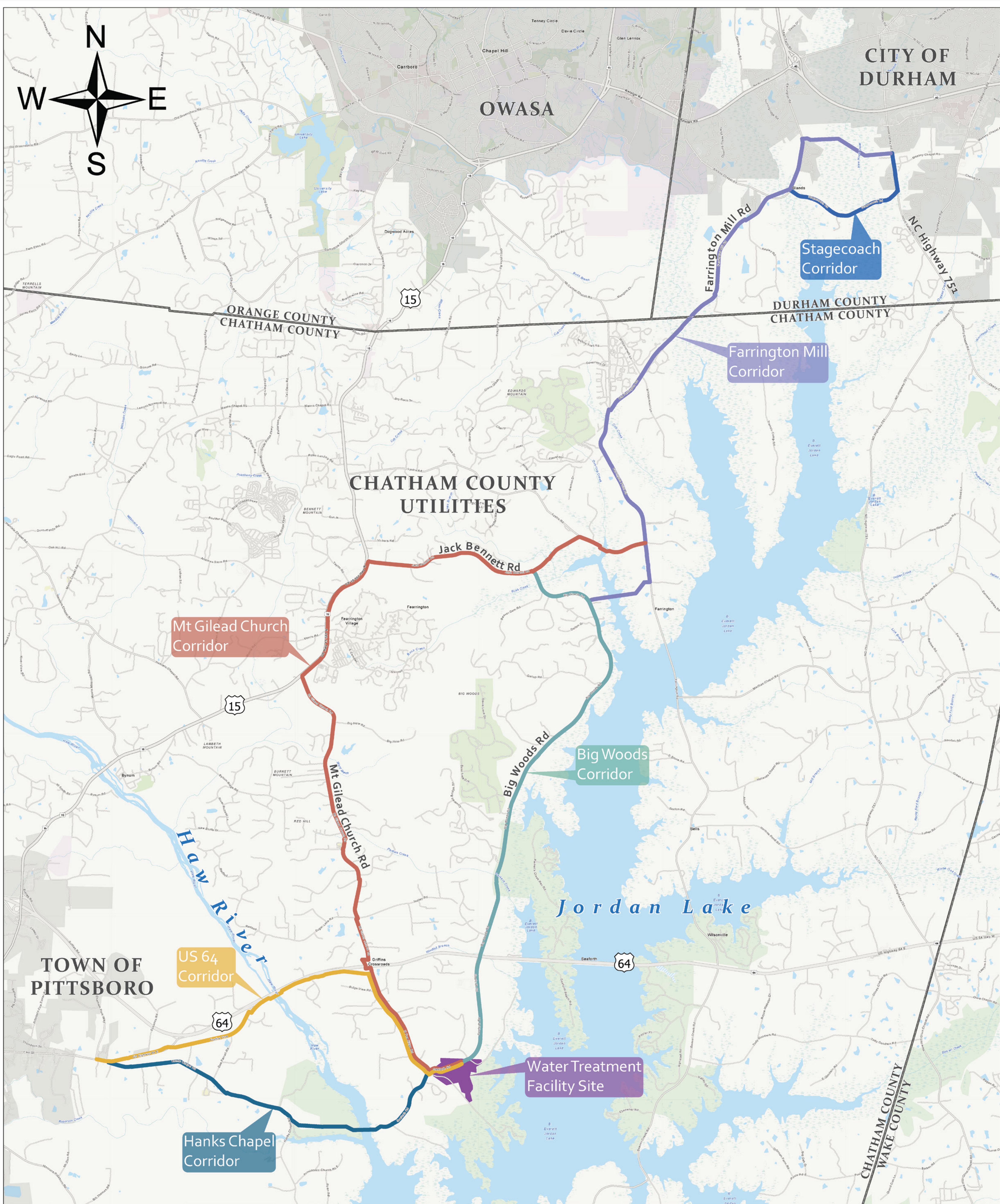
Mail a letter to 555 Fayetteville Street, Ste 900, Raleigh, NC 27601.

Comments will be accepted through the project design phase. As the project progresses, additional public meeting opportunities will be available.

**SCAN TO VISIT THE
PROJECT WEBSITE**



You can sign up to join our stakeholder email list on the project website:
westernintakepartnership.com



Potential Water Transmission Main Corridors



- The transmission mains are pipes that will convey drinking water from the Water Treatment Facility to the Partners' water distribution systems.
- The map shows multiple corridors being considered for the transmission mains. Ultimately, one corridor will be selected for piping to convey water to Pittsboro, and one corridor will be selected for piping to convey water north to Chatham County and the City of Durham. OWASA will receive water from the project through existing connections with the City of Durham.
- Customer water service is provided from the Partners' individual systems, and there will not be individual customer connections directly to the transmission mains.
- The corridors mostly follow existing roadways, and the use of existing road right of ways for the transmission mains will be maximized to reduce the required encroachment on private property. Following additional study and identification of specific locations for the pipelines within the corridors, if a resident's property is being considered for a portion of the new piping, the owners will be contacted directly.