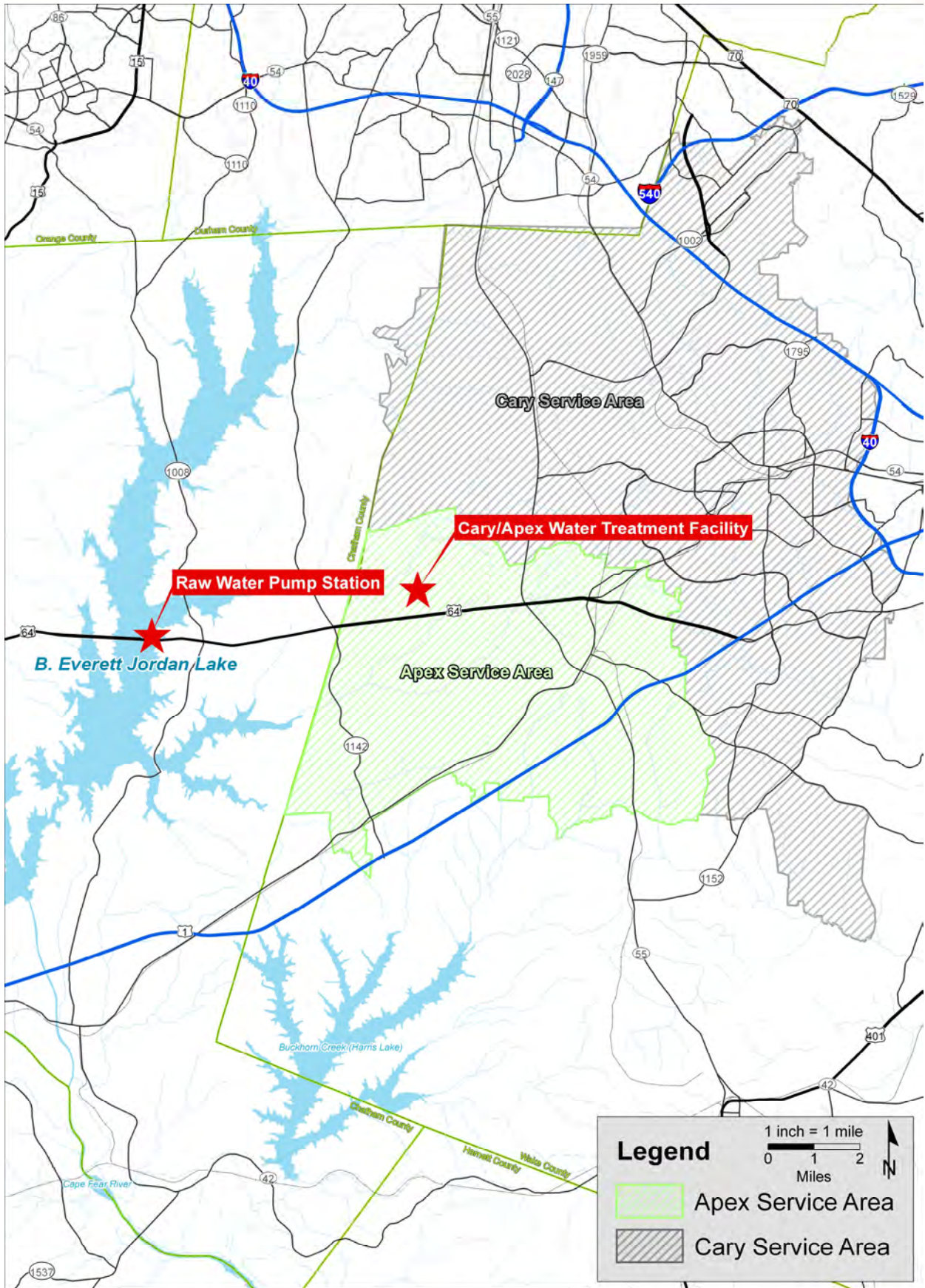


# CAWTF Service Area

CAWTF Phase III Expansion EA



## Projected CAWTF Water Demands (million gallons per day)

Demand Category	2010	2015	2025	Build-Out
Average Day Finished Water Demand	20.8	25.8	29.6	40.7
Peak Day Finished Water Demand	33.7	41.6	47.7	65.9
Process Water (10%)	3.4	4.2	4.8	6.6
Chatham County Raw Water Demand	3.0	3.0	3.0	3.0
Total Raw Water Peak Demand	40.1	48.8	55.4	75.5

- Peak day water demands are approaching the plant capacity of 40 million gallons per day (mgd)
- Project Purpose:
  - Accommodate projected peak day water demands through 2030
  - Maintain our high water quality and reliability



# Raw Water Pump Station Expansion Features

CAWTF Phase III Expansion EA



## SYMBOL LEGEND

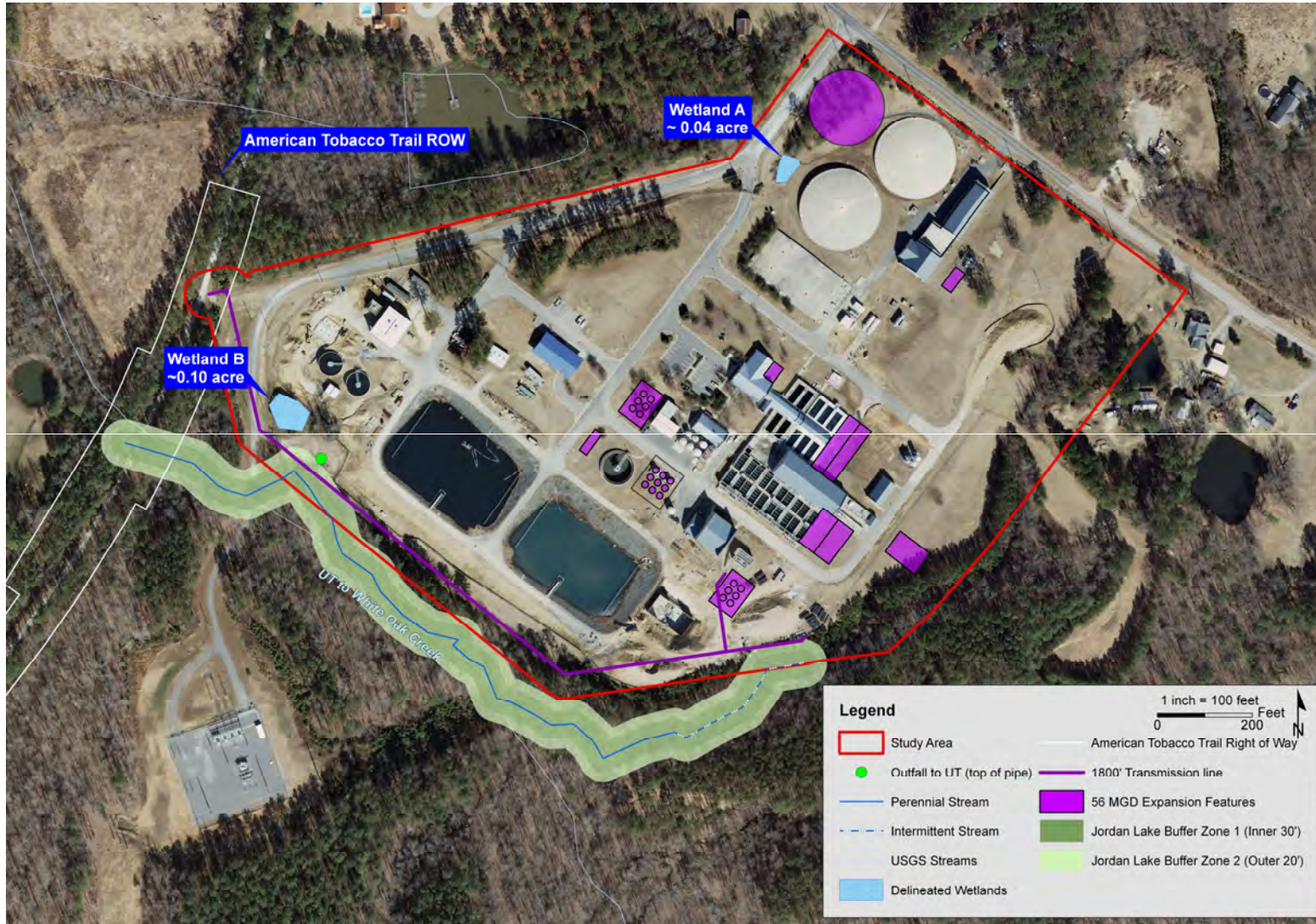
■ 56 MGD EXPANSION

## ABBREVIATIONS

COE CORPS OF ENGINEERS  
 NCDOT NORTH CAROLINA DEPT. OF  
 TRANSPORTATION

# CAWTF Environmental Features

CAWTF Phase III Expansion EA



3 - ENVIRONMENTAL FEATURES

# Raw Water Pump Station Environmental Features

CAWTF Phase III Expansion EA



# Impact Analysis Summary

## CAWTF Phase III Expansion EA

Resource	Project Activity	Temporary Impacts	Permanent Impacts
Topography	Grading	Minimal - disturbances associated with the transmission line and air burst pipe; 0.07 acre of disturbance within the 100-year floodplain	None
Soils	Disturbance	Minimal - Approximately 3 acres of total soil disturbance; erosion control measures would be installed	Minimal – 4% increase in impervious surfaces on existing sites
Land Use	Alter land use	None	None
Agriculture	Loss of agricultural land	None	None
Public / Recreation Sites	Disturbance & land clearing	Minimal – Temporary disturbances during construction to Jordan Lake and ATT trail users	None
Archeological / Historic Sites	Land clearing	None	None
Air Quality	Increase emission sources	From construction equipment	Minimal from additional emergency generators
Noise Levels	Construction noise	From construction equipment	Minimal from upgrades of the existing RWPS motors
Wetlands & Streams	Disturbance	No direct impacts to wetlands or streams are anticipated; allowable buffer impacts may occur	No direct impacts to wetlands or streams are anticipated; allowable buffer impacts may occur
Water Resources	Increase discharge at outfall; Construction in Water Supply Watershed	Minimal - Erosion control measures would be installed	Minimal - Increase flow at the outfall, but change in effluent quality not anticipated. NPDES permit modification required; a 4% increase in impervious surfaces on existing sites
Fish / Shellfish	Increase discharge at outfall	Minimal - Erosion control measures would be installed	Minimal - Increase flow at the outfall, but change in effluent quality not anticipated. NPDES permit modification required
Forest / Vegetation	Land clearing	Minimal - Erosion control measures would be installed	Minimal - Approximately 0.47 acre of forest cover may be removed depending on final design
Wildlife and Natural Vegetation	Land clearing	Minimal - from construction equipment	Minimal - Approximately 0.47 acre of forest cover may be removed which could impact potential wildlife habitat
Endangered / Threatened Species	Disturbance, Land clearing	None	None

# CAWTF Expansion Schedule

## CAWTF Phase III Expansion EA

