

# ***The Lower Cape Fear Water and Sewer Authority***

***Division of Water Resources  
Cape Fear River Basin Users Meeting  
October 1, 2007***

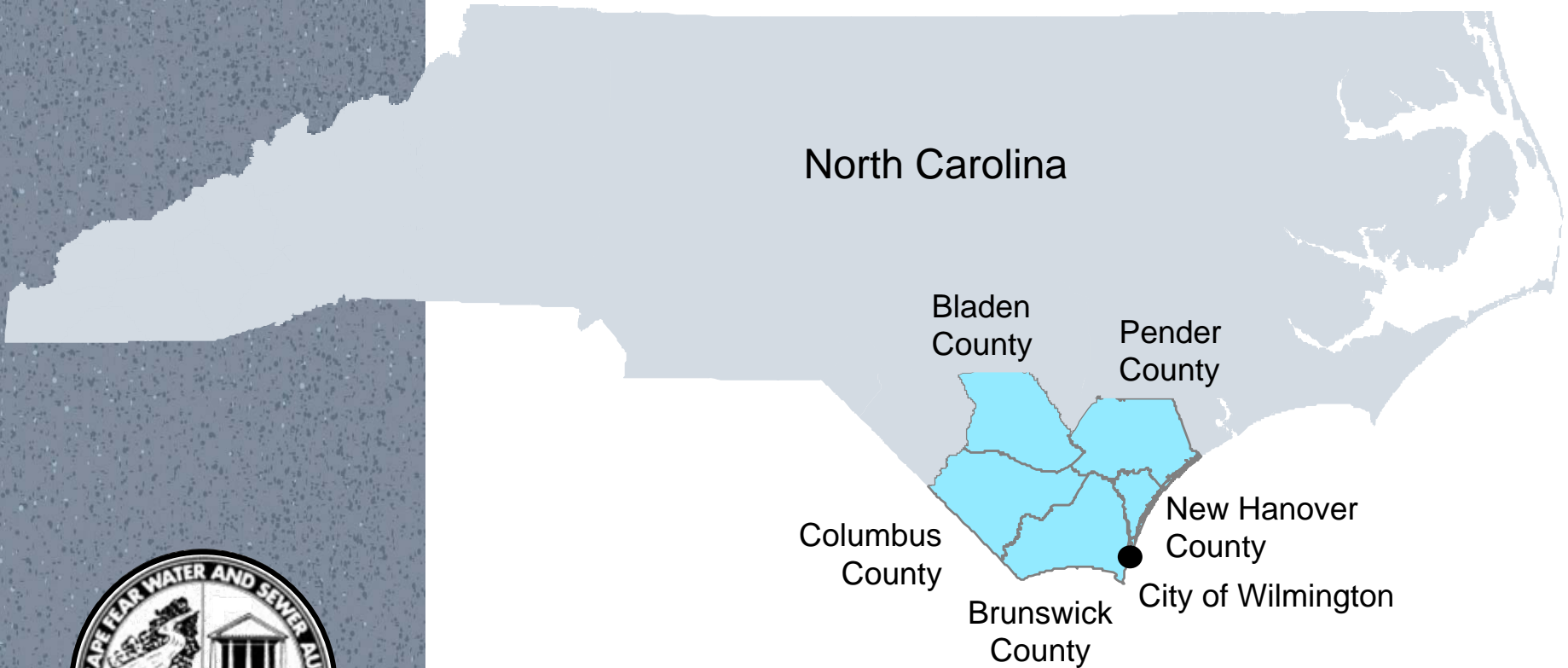


**Don Betz**  
Executive Director

**Tony Boahn, PE**  
McKim & Creed, PA



# Service Area Diagram





# Authority History

## Member Governments

- Bladen, Brunswick, Columbus, New Hanover, Pender Counties, City of Wilmington

## Board of Directors

- 13, Appointed by member governments





# Authority History

## Facilities

- 45 MGD intake-pumping station, 3 million gallon reservoir, 25 miles of 60" and 48" reinforced concrete cylinder pipeline

## Water Supply Source

- Cape Fear River behind U. S. Lock and Dam No. 1 in Bladen County





# Authority History

## Existing Customers

- Brunswick County
- Invista
- Praxair
- City of Wilmington

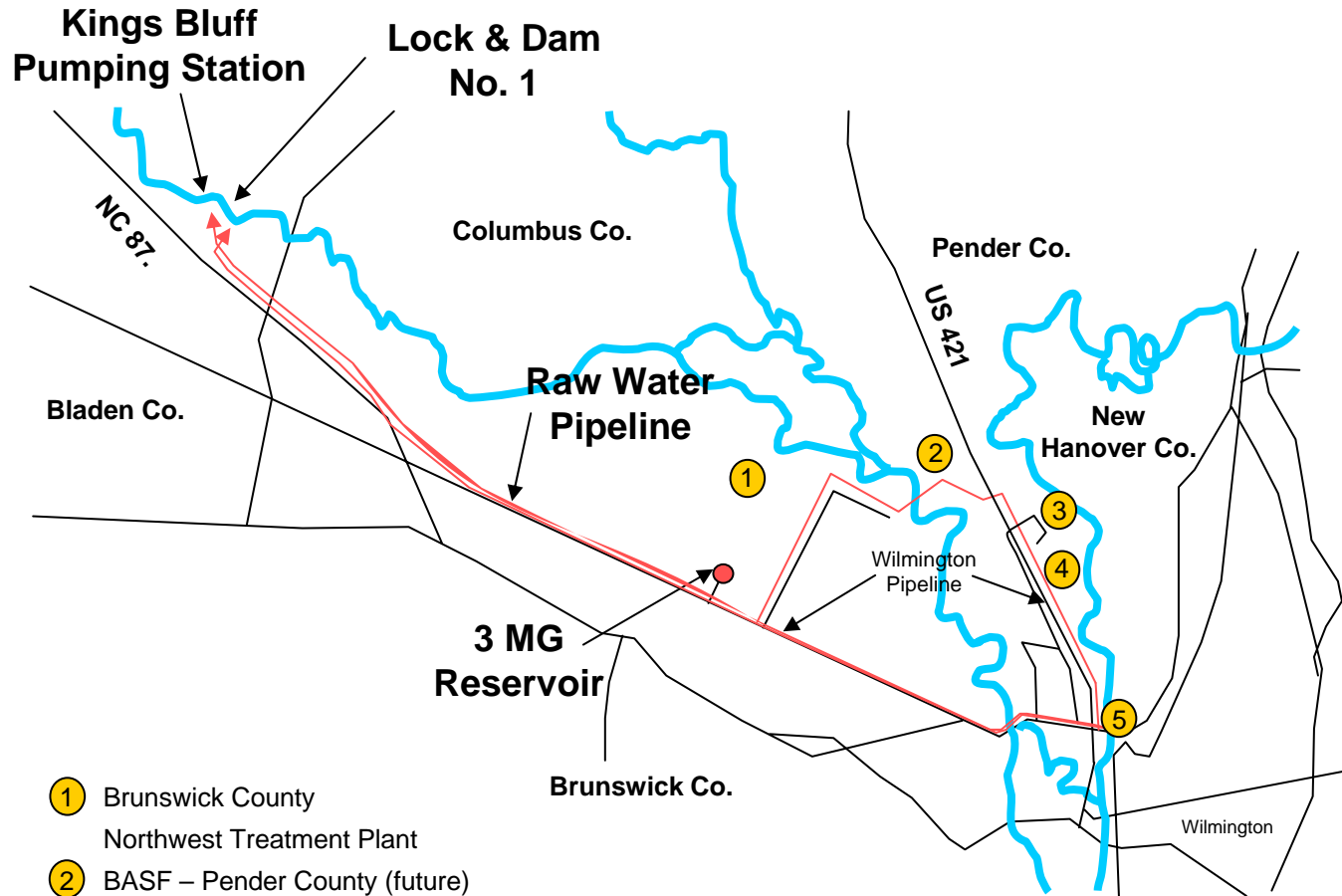
## Future Customer by Contract

- BASF
- Pender County





# Facilities Map



- ① Brunswick County Northwest Treatment Plant
- ② BASF – Pender County (future)
- ③ Praxair
- ④ Invista
- ⑤ City of Wilmington Sweeney Water Plant





# Projected Raw Water Demands Kings Bluff Facility

Customer	Current Demand (MGD)	2010 Demand (MGD)	2015 Demand (MGD)	2020 Demand (MGD)	2025 Demand (MGD)	2030 Demand (MGD)
City of Wilmington	15.0	17.9	27.1	29.9	33.2	36.9
Brunswick County	24.0	28.0	34.0	38.0	42.0	43.0
Invista	4.1	4.1	4.1	4.1	4.1	4.1
Praxair	0.1	0.1	0.1	0.1	0.1	0.1
Pender County	0.0	2.0	5.0	7.2	9.2	12.0
<b>Totals</b>	<b>43.17</b>	<b>52.07</b>	<b>70.27</b>	<b>79.27</b>	<b>88.57</b>	<b>96.07</b>





# Current and Future Projects

## Current Projects – Kings Bluff

- Pump Station Expansion
- 60” Parallel Intake

## Future Projects – Kings Bluff

- Parallel Transmission Main
- Ground Storage (potential)
- In-Line Booster Station (potential)





# Current Facilities





# Intake Pipe and Screen Location





# Existing Vertical Turbine Pumps

