Presentation Outline

- Background of State Water Planning
  - Findings During the Recent Coastal Georgia Regional Water Plan Update
  - Specifics to Liberty, Long and McIntosh Counties
  - Plan Recommendations and Next Steps
- Green Zone Well Case Study
- Update from EPD Grants Unit Manager
- Public Comments / Q&A
Drivers for Regional Water Planning

- Rapid population growth of Georgia
- Balance increasing and sometime conflicting demands
- Address water challenges in a more proactive and comprehensive manner
- Flexible and adaptive process utilizing a regional focus
Regional Water Planning Efforts Statewide

  - Georgia Water Council
  - Stakeholder process
  - State Water Plan (2008)

- Regional Water Planning
  - Councils appointed (2009)
  - Initial plans adopted after 3-year planning process (2011)
  - Updated plans adopted (2017)
  - Plans reviewed, revised every five years
Coastal Georgia Region

- Nine counties, including six along the coast.
- 680,000 residents in 2015.
- Major cities include: Savannah, Statesboro, Hinesville, St. Mary’s, and Brunswick
Coastal Georgia Regional Water Planning Partners

- Regional Water Planning (RWP) Councils
  - Up to 30 members appointed by Governor, Lieutenant Governor, & House Speaker
  - Represent local governments, water users, & other water-related interests
- Georgia Environmental Protection Division (EPD)
- Planning contractors
- Other agencies
- Stakeholders
- Implementing actors
Coastal Georgia Regional Water Planning Process
Components of the Coastal Georgia Regional Water Plan

- Vision & goals
- Current & future water supply, wastewater needs
- Resource assessments
- Management practices
- Recommendations to the State
Coastal Georgia Region Vision

Coastal Georgia Adopted Vision
as adopted by the Council 9.24.09

“The Coastal Georgia Regional Water Planning Council seeks to conserve and manage our water resources in order to sustain and enhance our unique coastal environment and economy of Coastal Georgia.”
Coastal Georgia Forecast of Demands

2015 WATER DEMAND
TOTAL = 275.4 MGD

- Municipal: 31.9%
- Industrial: 60.3%
- Agriculture: 2.8%
- Energy: 5.1%

2050 WATER DEMAND
TOTAL = 345.7 MGD

- Municipal: 35.2%
- Industrial: 56.9%
- Agriculture: 3.7%
- Energy: 4.3%
Coastal Georgia Region Groundwater Availability Assessment

- Coastal Georgia groundwater usage comes largely from the Floridan aquifer.
- Regionally, there is sufficient groundwater to meet current needs; however, pumping restrictions have been locally implemented in some areas in response to effects from salt water intrusion.
Specifics for Liberty, Long and McIntosh Counties

Combined Population Projections
For Liberty, Long and McIntosh Counties

Population

- 20,000
- 40,000
- 60,000
- 80,000
- 100,000
- 120,000
- 140,000
- 160,000
- 180,000
- 200,000

2010  2015  2020  2025  2030  2035  2040  2045  2050

Round 1 Population  Updated Population
Water Demands Liberty, Long and McIntosh Counties

Combined Water Demands for Liberty, Long and McIntosh Counties

- Updated Total Municipal MGD

Graph showing the increase in water demands from 2010 to 2050.
Specifics for Liberty, Long and McIntosh Counties

Combined Total Municipal Wastewater Flow Forecast in MGD for Liberty, Long, and McIntosh Counties
Coastal Georgia Region Management Practices

- The Coastal Georgia Plan describes over 80 management practices targeted toward current and future needs.

- Some representative practices include:
  - **Water Conservation**: adherence to Tier 1/Tier 2 conservation measures from the 2010 Water Conservation Implementation Plan
  - **Water Supply**: multi-jurisdictional groundwater development outside the saltwater intrusion areas
  - **Water Quality**: relocate discharges, upgrade treatment facilities
  - **Information Needs**: confirm agricultural consumptive use
Coastal Georgia Region
Recommendations To The State

- Focus on education, incentives, collaboration, cooperation and enabling and supporting plan implementers
- Institutionalize and fund water planning with a focus on funding and assistance on areas with shortfalls.
- Continue monitoring to help conserve Georgia’s natural, historic, and cultural resources.
Coastal Georgia Region Water Plan Implementation

- Council working to raise awareness of Plan
- Council identifying and coordinating with partners to facilitate implementation
- State providing funds to support Council activities, technical work
- Seed grants available to support Plan implementation
- Next review and revision of Plan in 2021 through 2022
Where to Find the Plan

waterplanning.georgia.gov/documents/coastal-georgia-regional-water-plan
Potable Water Challenges:
Floridan Cone of Depression and Riceboro Well Case Study

www.georgiawaterplanning.org
EPD Updates on Grant Opportunities
### Regional Water Plan Seed Grant Funds

<table>
<thead>
<tr>
<th>Water Plan Region</th>
<th>Management Practice</th>
<th>Description</th>
<th>Area Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coastal Altamaha Suwannee-Satilla</td>
<td>NPS-2 Research and Address Impairment Issues</td>
<td>Monitor and determine sources of nutrient-pollutant loading. Develop management programs to mitigate impairments.</td>
<td>Urban</td>
</tr>
<tr>
<td>Coastal Altamaha Suwannee-Satilla</td>
<td>NPSA-1 Soil Erosion Reduction Measures</td>
<td>Encourage implementation of conservation tillage and cover crops to reduce soil erosion.</td>
<td>Agriculture</td>
</tr>
<tr>
<td>Altamaha Suwannee-Satilla</td>
<td>WC-12 Application Efficiency Technologies</td>
<td>Encourage and improve use of crop water management technologies and techniques.</td>
<td>Agriculture</td>
</tr>
</tbody>
</table>
Additional Information

- Periodic updates for Seed Grant → Partner Resources Sidebar
- [https://site.extension.uga.edu/water/](https://site.extension.uga.edu/water/)
- Search using “wateratuga”
- Can subscribe for alerts of new postings
Public Comments / Q&A
For More Information

- waterplanning.georgia.gov/coastal-georgia-water-planning-region
- waterplanning.georgia.gov/documents/coastal-georgia-regional-water-plan