JOINT ALACHUA COUNTY/CITY OF GAINESVILLE WATER SUPPLY FACILITIES WORK PLAN (2018-2028) Petition PB-17-145 CPA Legistar No. 170749



City Commission: May 17, 2018

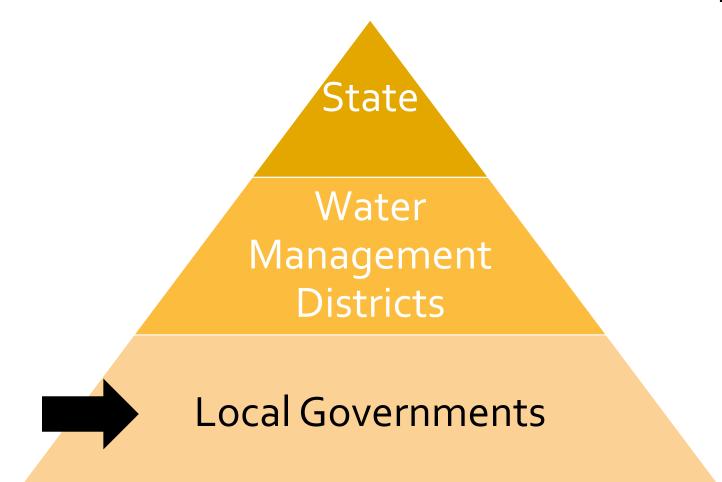
Presentation By: Florence Buaku, Rick Hutton

In 2005 Florida Statutes established requirements for local governments to plan for water supply 163.3177(6)(c)3 F.S





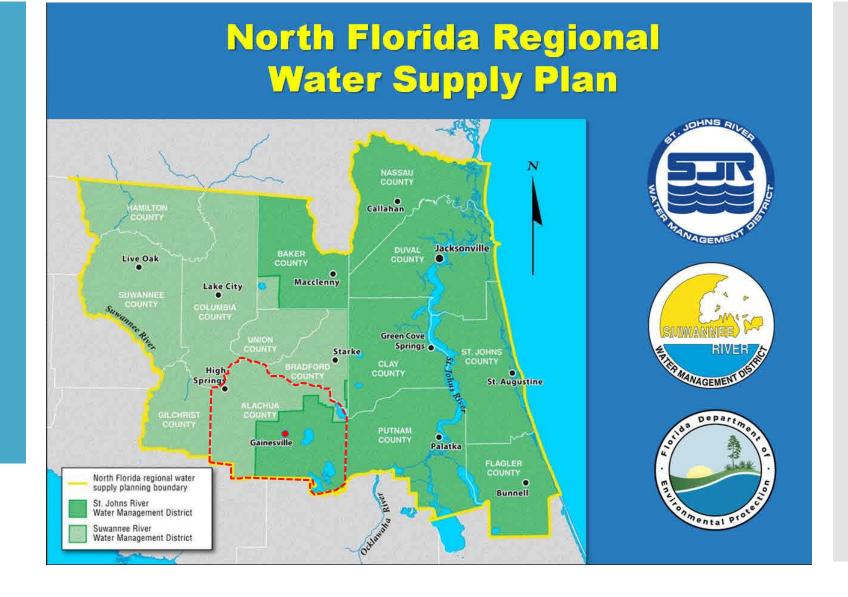
PB-17-145 CPA Water Supply Planning





# PB-17-145 CPA NFRWSP

(2015-2035)





### **NFRWSP**

**Objectives** 

### Future Demand

Project water demands for all uses through 2035

### Potential Impacts

•Identify potential water resource impacts

### Action

 Identify technically & economically feasible water resource projects that can be implemented to meet future demands & avoid unacceptable impacts to water resources



### **NFRWSP**

Overview

### **Conclusions**

# Plan **Conclusions**



- 1. Fresh groundwater alone cannot meet region's projected needs
- 2. Conservation & reuse is key
- 3. Alternative water supply projects identified that are sufficient to meet supply needs & protect natural resources
  - Number of projects: 170
  - **Water Resource Benefit:** 172 mgd
  - Estimated Cost \$526 Million



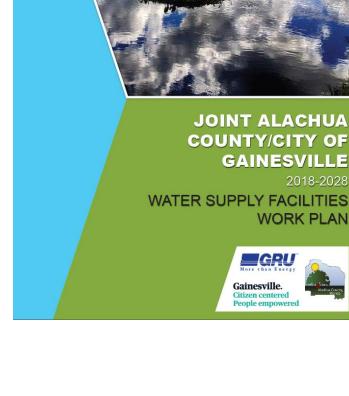
Overview

# **Water Supply Facilities** Work Plan (WSFWP)

Plan Details

Florida Statute 163.3177(6)(c)3 requires local governments to adopt Water Supply Facilities Work Plan (WSFWP) into Comprehensive plan w/in 18 months of water supply plan adoption

- North Florida Water **Supply Plan adopted Jan** 17, 2017
- WSFWP must be adopted by July 2018





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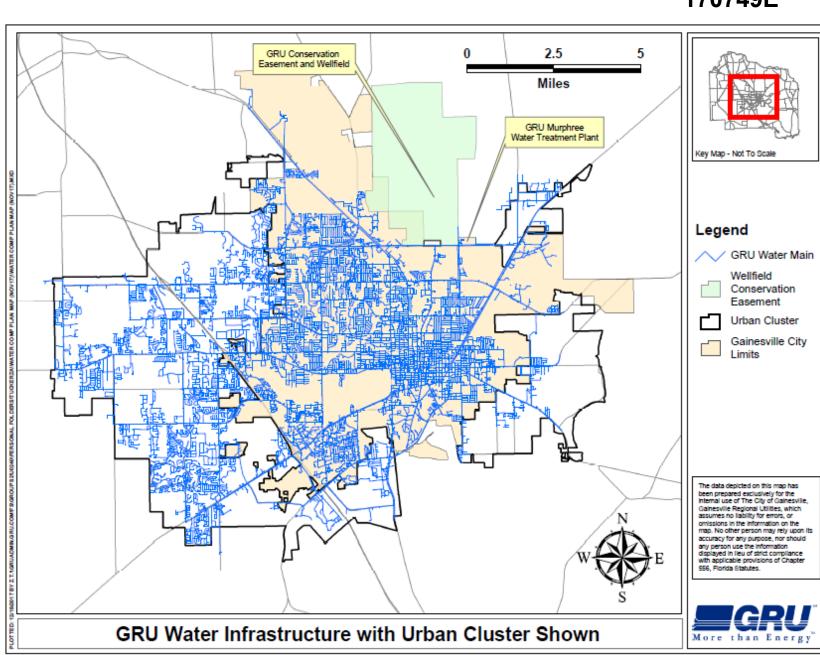
City/County Collaboration



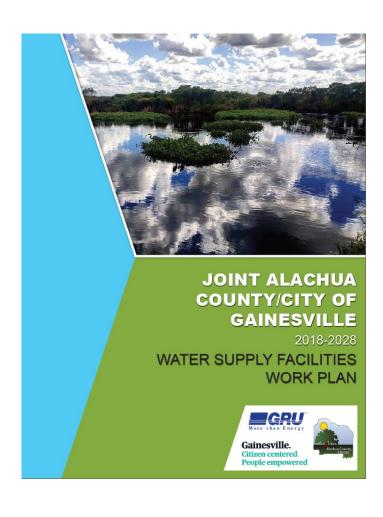


**Plan Coverage** 





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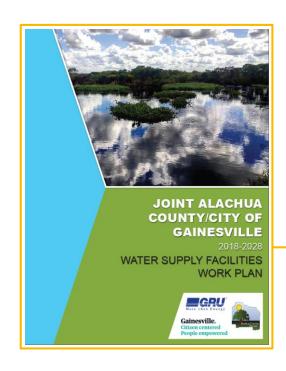


### 10-YEAR PLAN (2018-2028)

- Projections and Future Water Supply Assessment
- Review of Comprehensive Plan
  - Conservation
  - Protection of Water Quality,
     Supplies, and Resources
  - Water Reuse
  - Water Supply and Water Supply Facilities Concurrency
  - Intergovernmental Coordination
- Water Supply Projects
- Comprehensive Plan Amendments



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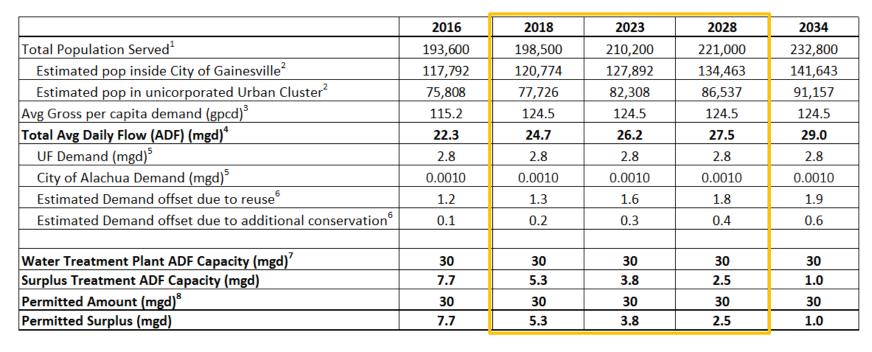


- GRU Consumptive Use Permit (CUP) for 30 mgd through 2034
  - We can supply enough potable water to meet future demand
- We have Water supply programs and policies in Comprehensive Plan to implement:
  - Conservation
  - Protection of Water Quality, Supplies, and Resources
  - Water Reuse
  - Water Supply and Water Supply Facilities Concurrency
  - Intergovernmental Coordination
- Water Supply Projects
  - We have selected water supply project in support of NFRWSP
- Comprehensive Plan Amendments to adopt and reference Joint Plan



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# Demand & Supply



## **Summary 2018-2028**

22,500 – City of Gainesville 8,811 – Unincorporated Alachua County 2.8mgd – Increase in Water Demand



# Alachua County Conservation projects

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# **Selected Projects**

GRU Reclaimed Water projects

### Recharge Wetlands

- Kanapaha Middle School Wetland
- Future wetlands at location(s) to be determined

# Reclaimed water main extensions

- Oakmont subdivision phases 2,3 &4
- Future extensions in Brytan & Oakmont subdivisions, I-District & other locations as appropriate and feasible

### Indoor plumbing retrofit

**GRU** Conservation

projects

- Large meter replacement
- Water conservation tracking tool (joint w/ Alachua County & UF IFAS)

Other cost effective conservation projects

- Education
- Plumbing retrofits
- Irrigation efficiency
- Commercial programs Others
- Advanced metering

- Landscape Irrigation
  Retrofit Rebate

Water Star Rebate

- Water conservation tracking tool (joint w/ GRU & UF IFAS)
- Public Education



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Selected Projects





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### **Comprehensive Plan Amendments**

Update LOS for Water Supply based on more recent data on Average Daily Flow

Example:

POTABLE WATER AND WASTEWATER ELEMENT

**Policy 1.1.3** The following LOS shall be adopted for water supply: Average Daily Flow: 147 124.5 gallons per capita per day.



### **Comprehensive Plan Amendments**

 Adopt the Joint Water Supply Facilities Work Plan by reference and Establish framework for updating the Plan

#### Example:

#### POTABLE WATER AND WASTEWATER ELEMENT

Policy 1.1.4 [New Policy] The Joint Alachua County/City of Gainesville Water
Supply Facilities Work Plan: 2018-2028 is hereby adopted by reference.

Policy 1.1.5 [New Policy] Within 18 months of adoption of an updated North

Florida Regional Water Supply Plan, the City shall:

- a. Coordinate with the County to update the Joint Alachua County/City of Gainesville Water Supply Facilities Work Plan as needed; and
- b. Amend the City of Gainesville Comprehensive Plan as needed.



### **Comprehensive Plan Amendments**

• Delete portions of Comprehensive Plan that have been rendered outdated with the development of the Water Supply Facilities Work Plan

#### Example:

#### POTABLE WATER AND WASTEWATER ELEMENT

Policy 1.1.4 Within 18 months of the adoption of water supply plans by the St. Johns River Water and Suwannee River Water Management Districts, the City shall amend the Comprehensive Plan to:

a. identify alternative and traditional water supply projects, and conservation and reuse measures that will meet the water needs identified in the water supply plans;

b. incorporate a work plan for at least a 10-year planning period for the development of water supply projects that will meet the water needs identified in the water supply plans.



### **Comprehensive Plan Amendments**

Include references to the Water Supply facilities work plan into the comprehensive plan.

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Example:

#### POTABLE WATER AND WASTEWATER ELEMENT

**Objective 1.5** Recognizing the importance of potable water supplies, the City shall encourage water conservation through the Joint Alachua County/City of Gainesville Water Supply Facilities Work Plan and the programs and methods listed below:





### **Approve Petition PB-17-145 CPA**

