# Legislative File #170676

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

City Plan Board, February 22, 2018

Presentation By: Florence Buaku

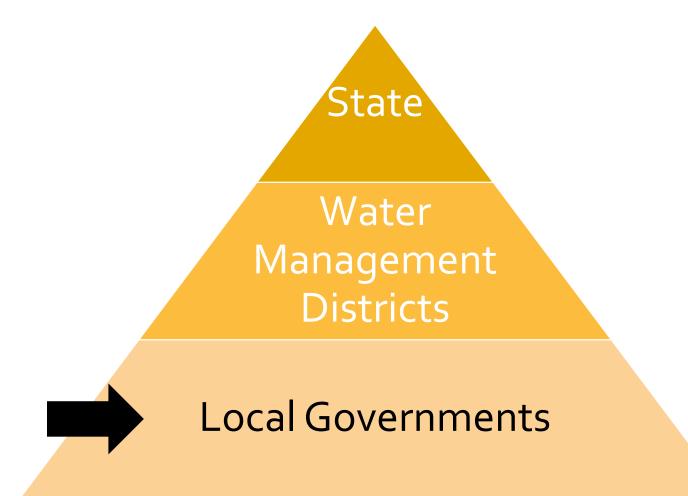




Plan Components

Plan Details

PB-17-145 CPA Water Supply Planning





> Plan Details

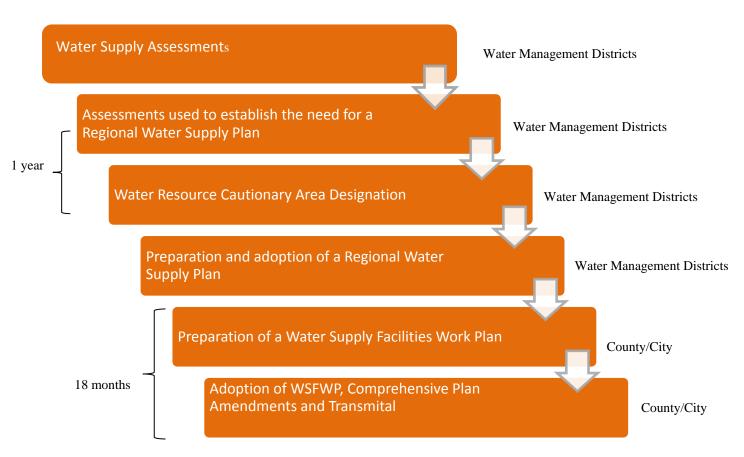
Recommendation

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





2005



2018



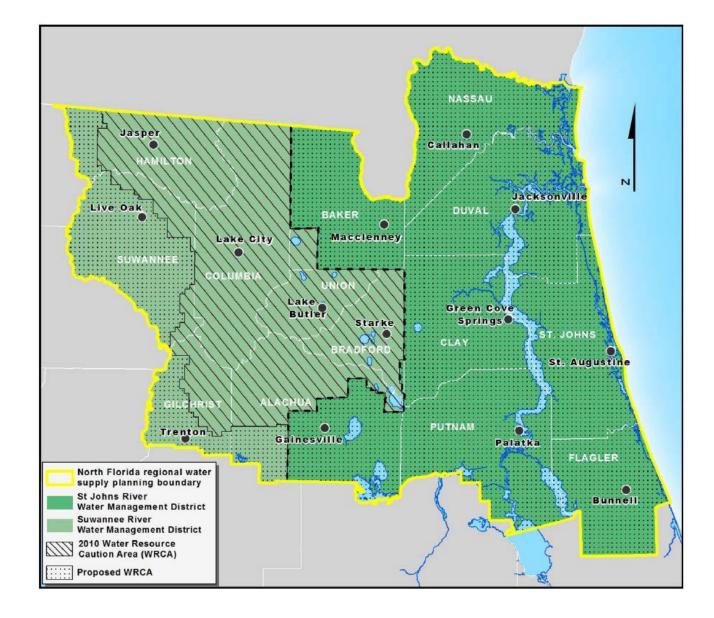
**PB-17-145 CPA** 

Water Supply

Planning

**Process** 





Plan Components

**Plan Details** 

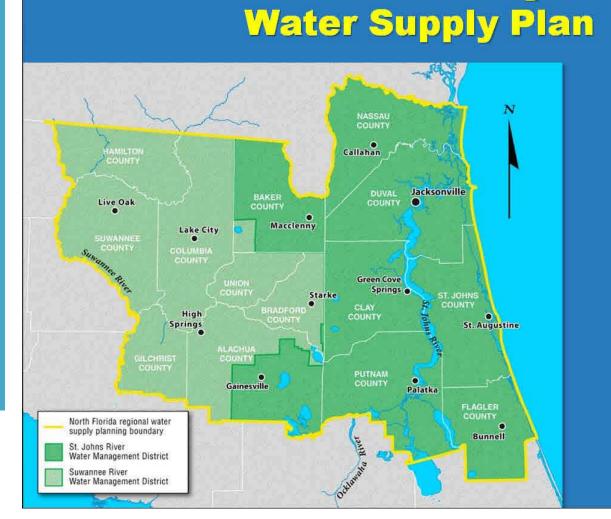
**North Florida Regional** 

Recommendation

# PB-17-145 CPA NFRWSP

### (2015-2035)







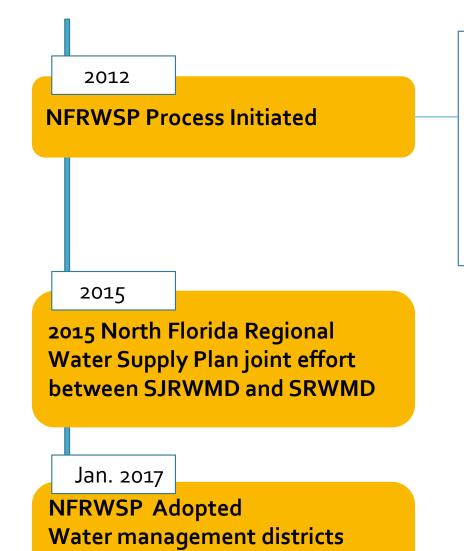




### PB-17-145 CPA

# NFRWSP Process





required to provide updated

water supply plans every 5 years

~86 public meetings

#### Stakeholder Advisory Committee

- Local government
- Water supply utilities
- Agriculture
- Industry
- Commercial business
- Environmental advocates

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### Future Demand

•Project water demands for all uses through 2035

# PB-17-145 CPA

**Objectives** 



### 2 Potential Impacts

•Identify potential water resource impacts

# 3 Action

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

> Plan Details

Recommendation

## PB-17-145 CPA

# Conclusions

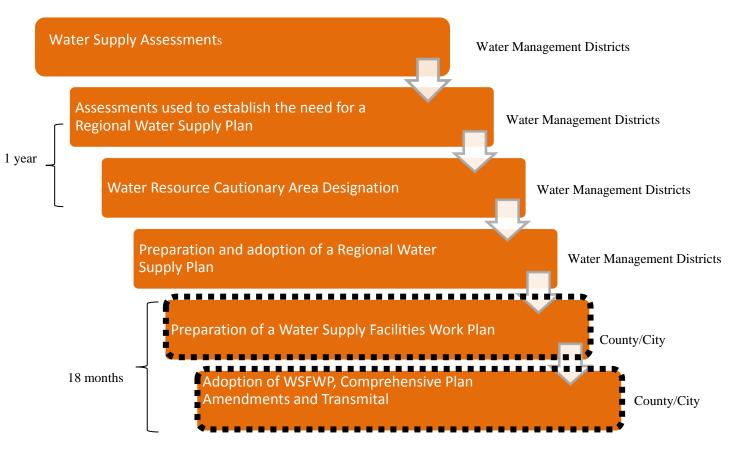
# Plan Conclusions

North Florida Rel

- 1. Fresh groundwater alone cannot meet region's projected needs
- 2. Conservation & reuse is key
- Alternative water supply projects identified that are sufficient to meet supply needs & protect natural resources
  - 99 projects
  - 169 million gallons per day of benefit



2005



PB-17-145 CPA Water Supply Planning Process

> DEPT OF DOING

2018

Plan Details

Recommendation

## PB-17-145 CPA



### Water Supply Facilities Work Plan

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



JOINT ALACHUA COUNTY/CITY OF GAINESVILLE

2018-2028 WATER SUPPLY FACILITIES WORK PLAN



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

PB-17-145 CPA

# City/County Collaboration

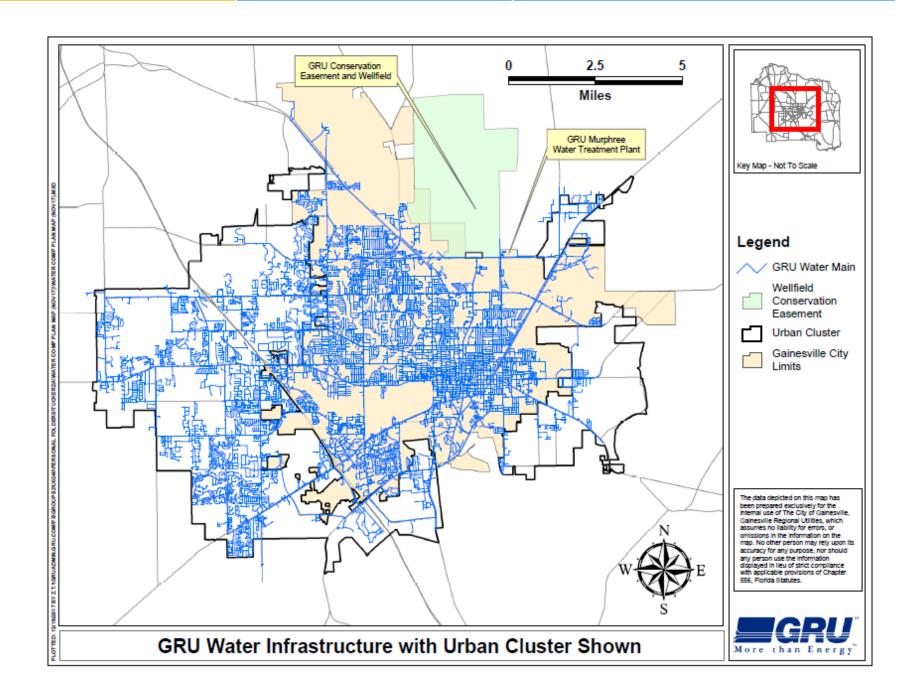




### PB-17-145 CPA

### **Plan Coverage**





JOINT ALACHUA COUNTY/CITY OF GAINESVILLE 2018-2028 WATER SUPPLY FACILITIES WORK PLAN



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

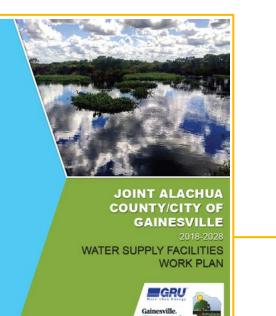
- Projections and Future Water Supply Assessment
- Review of Comprehensive Plan
  - Conservation
  - Protection of Water Quality, Supplies, and Resources
  - Water Reuse
  - Water Supply and Water Supply Facilities Concurrency
  - Intergovernmental Coordination
- Water Supply Projects
- Comprehensive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



#### Plan Components

#### Plan Details

#### Recommendation



### PB-17-145 CPA

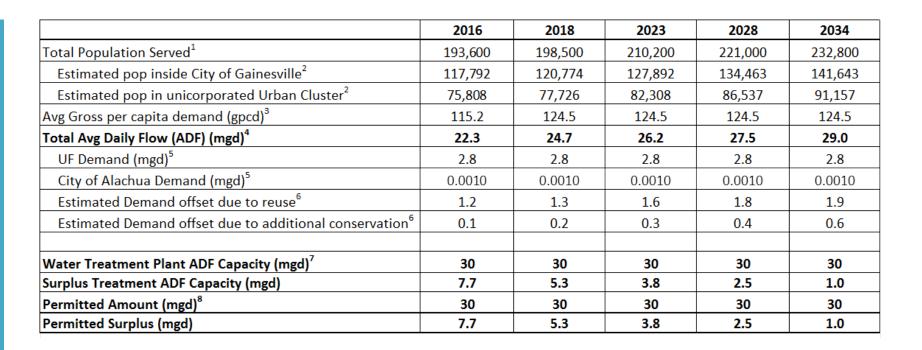
### Plan Summary

- 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



### PB-17-145 CPA

# Demand & Supply



Summary 2018-2028 22,500 – City of Gainesville 8,811 – Unincorporated Alachua County 2.8 – Increase in Water Demand



#### Plan Components

#### Plan Details

#### Recommendation

# **PB-17-145 CPA**

# 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

GRU Conservation projects

#### • Indoor plumbing retrofit

- 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

#### Alachua County Conservation projects

- Water Star Rebate
- Landscape Irrigation Retrofit Rebate
- Water conservation tracking tool (joint w/ GRU & UF IFAS)
- Public Education

Plan Components

Plan Details

Recommendation

### PB-17-145 CPA

# Selected Projects





#### > Plan Components

## PB-17-145 CPA

### **Comprehensive Plan Amendments**

- Update LOS for Water Supply based on more recent data on Average Daily Flow
- Adopt the Joint Water Supply Facilities Work Plan by reference
- Establish Process and timeline for updating Joint Water Supply Facilities Work Plan
- Delete portions of Comprehensive Plan that have been implemented by the development of the Water Supply Facilities Work Plan
- Include references to the Water Supply facilities work plan into the comprehensive plan.



### **Comprehensive Plan Amendments**

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

#### POTABLE WATER AND WASTEWATER ELEMENT

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

• Adopt the Joint Water Supply Facilities Work Plan by reference

#### 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.



#### > Plan Components

> Plan Details

# PB-17-145 CPA

### **Comprehensive Plan Amendments**

• Delete portions of Comprehensive Plan that have been implemented by the development of the Water Supply Facilities Work Plan

#### 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**

• Establish Process and timeline for updating Joint Water Supply Facilities Work Plan

#### POTABLE WATER AND WASTEWATER ELEMENT

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

Florida Regional Water Supply Plan, the City shall:

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



### Establish Proce

#### **Comprehensive Plan Amendments**

 Include references to the Water Supply facilities work plan into the comprehensive plan.
 POTABLE WATER AND WASTEWATER ELEMENT

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

#### CONSERVATION, OPEN SPACE & GROUNDWATER RECHARGE

Policy 2.3.12 [New Policy] The City shall implement water conservation, use and protection programs consistent with the Water Management District Plans and the Joint Alachua County/City of Gainesville Water Supply Facilities Work Plan.

#### INTERGOVERNMENTAL COORDINATION ELEMENT



**PB-17-145 CPA** 

**Policy 1.6.2** The City shall maintain water conservation **and water supply** programs that are consistent with the Water Management Districts' plans.

City Plan Board Approval

**City Commission Approval** 

Transmit to Regional Water Supply Planning Agency

Adopt Joint WSFWP into City Comprehensive Plan

### Approve Petition PB-17-145 CPA

