### Issues Facing Water/Wastewater Utilities in Florida – GRU Perspective

Rae Hafer, PE Utility Engineer Gainesville Regional Utilities



# Topics

- GRU Overview
- Water Supply Challenges
- Water Reuse & Water Quality
- Aging Infrastructure
- Irma Response



# **GRU** Overview

- GRU Services
  - Water Electric Power Internet

- Wastewater - Natural Gas

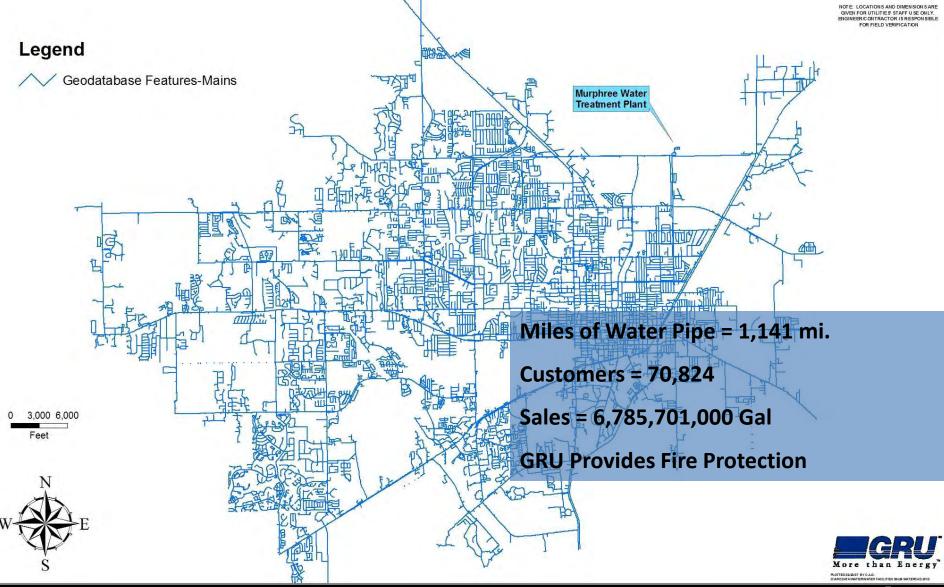
- Owned by City of Gainesville
- Profits (General Fund Transfer) to City
  - Approximately 40% of City operating revenue
- Governed by City Commission

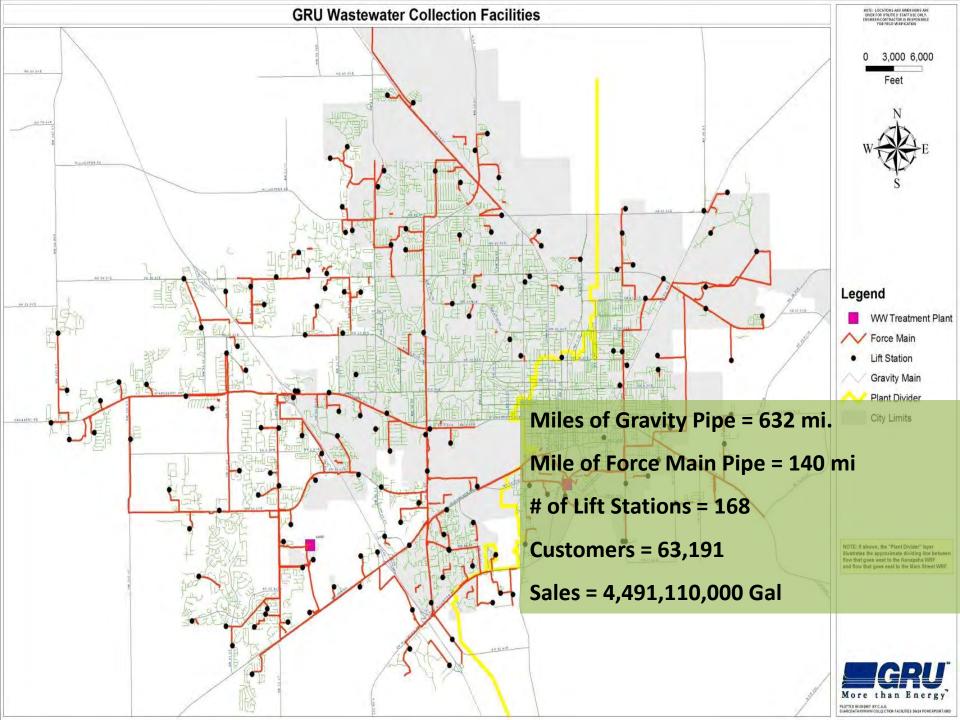




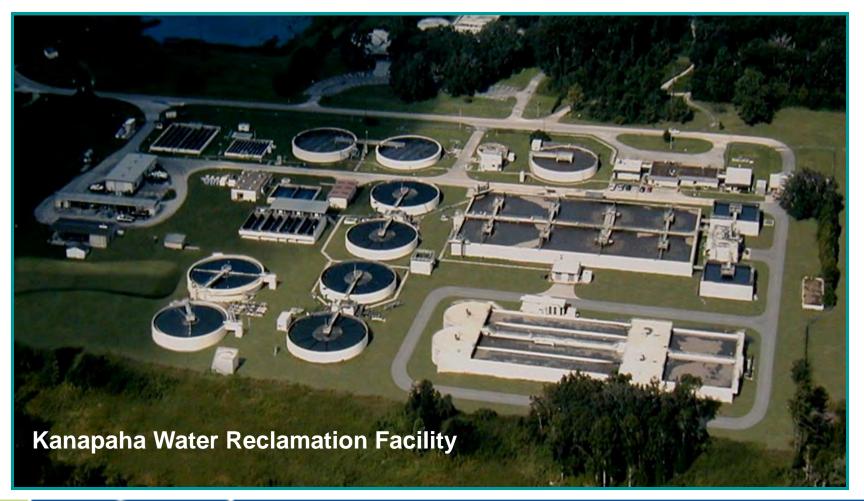
## Water Supply: GRU Wellfield



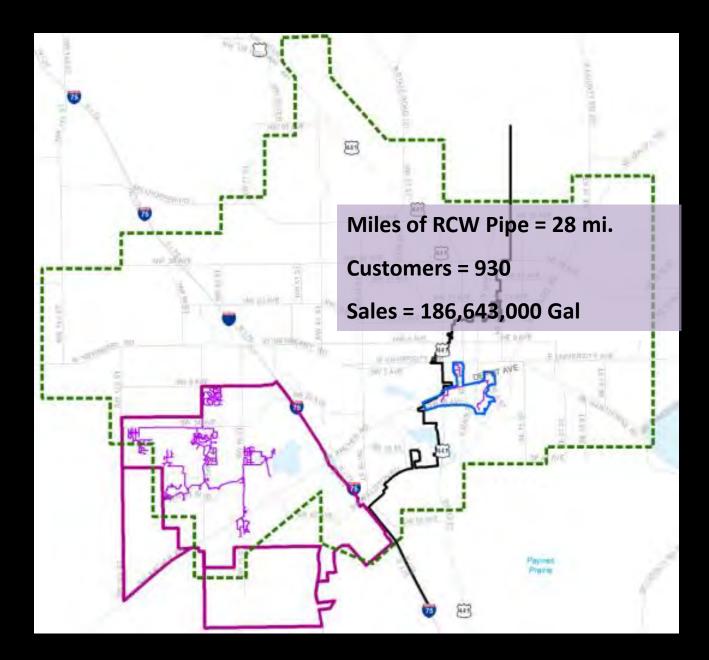




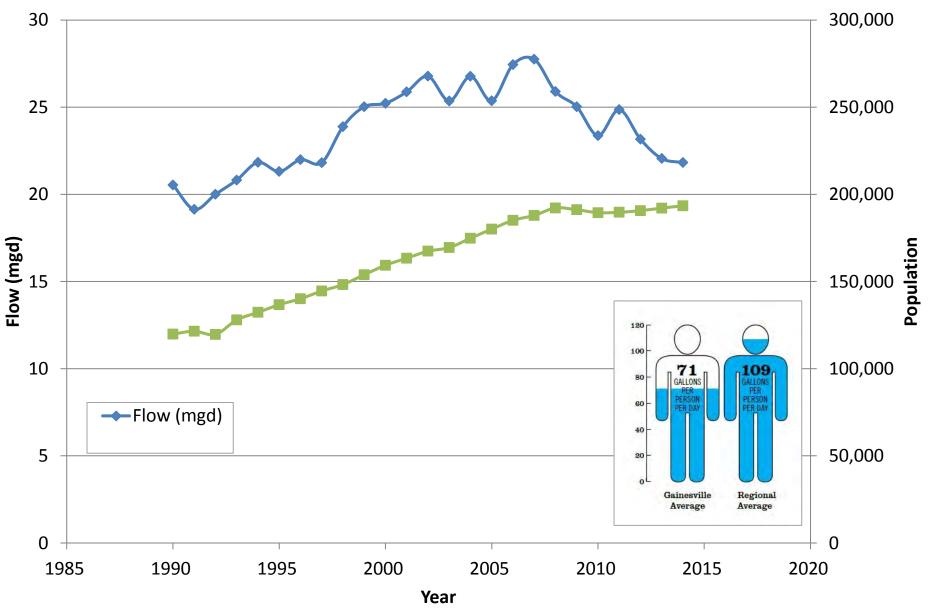
### Wastewater Collection & Treatment







#### GRU Water System Service Population and MWTP Flows



# GRU Water Reuse Program

### 1. Irrigation & Cooling

- Reduce demand for groundwater
- Residential & golf course irrigation
- Industrial cooling
- 2. Aquifer Recharge
- 3. Environmental Restoration



### **Aquifer Recharge**





#### KANAPAHA MIDDLE SCHOOL ENVIRONMENTAL TEACHING PONDS

CREATED WITH RECLAIMED WATER FROM THE KANAPAHA WATER RECLAMATION FACILITY



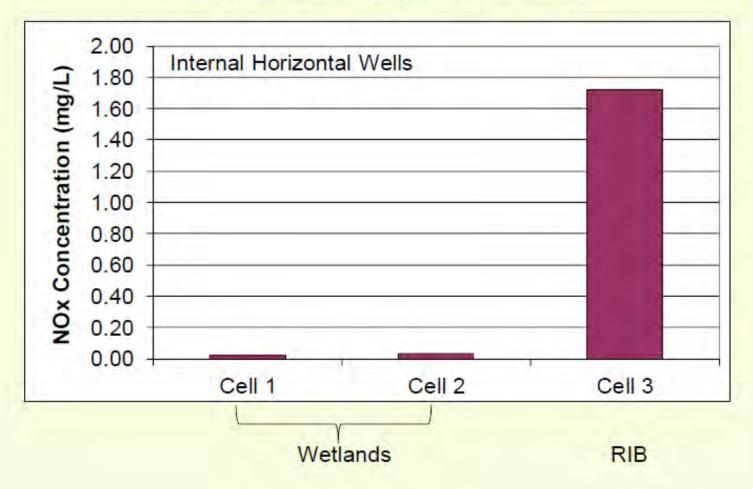




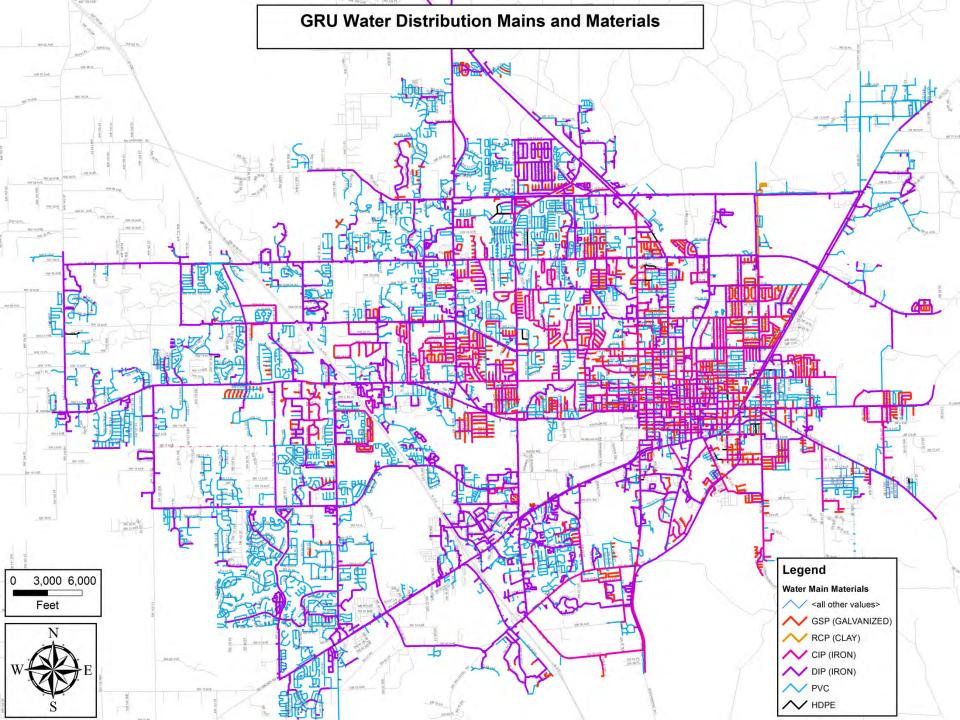
A COOPERATIVE PROJECT BETWEEN GAINESVILLE REGIONAL UTILITIES GRU AND THE SCHOOL BOARD OF ALACHUA COUNTY

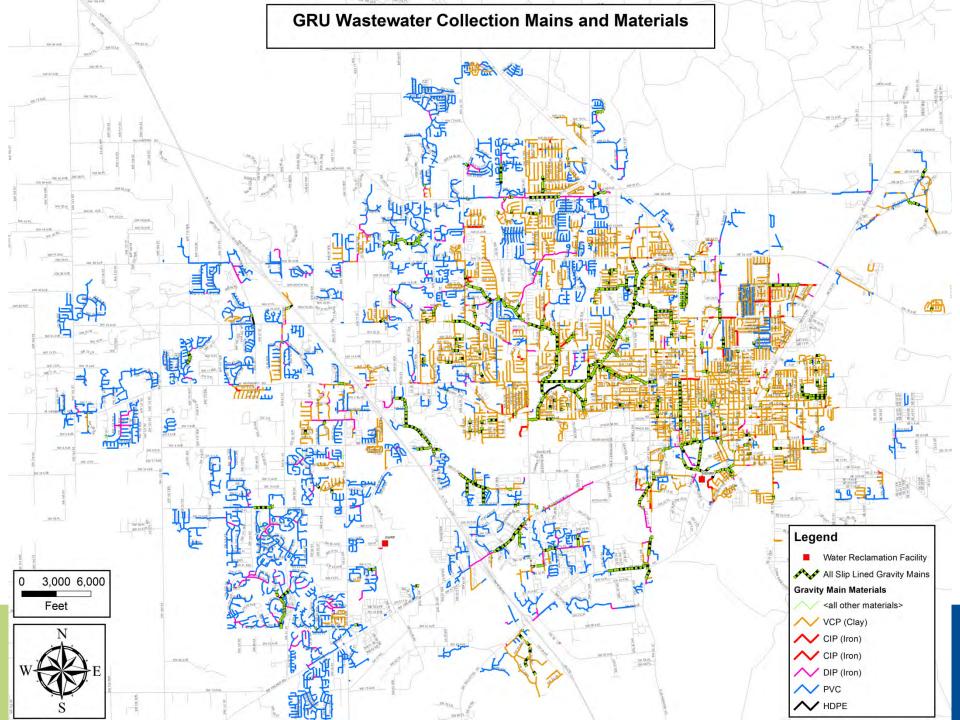
#### Reclaimed Water/Stormwater Recharge Wetland Kanapaha Middle School – Gainesville, FL

#### Kanapaha Water Reclamation Facility Groundwater Recharge Wetland Gainesville Regional Utilities



#### Sweetwater Wetlands – Gainesville, FL





### Gainesville Regional Utility MSWRF / Duck Pond Basin

MH -3952-74





# Hurricane Irma Response









# **Ongoing Efforts**

- Significant investment in R&R and update of our systems
- Continuing to ramp up R&R of WW Collection & Water Distribution
  - Will need to ramp this up further
  - Inflow & Infiltration is "eating up" plant capacity
  - More comprehensive assessment coming





## Questions?

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