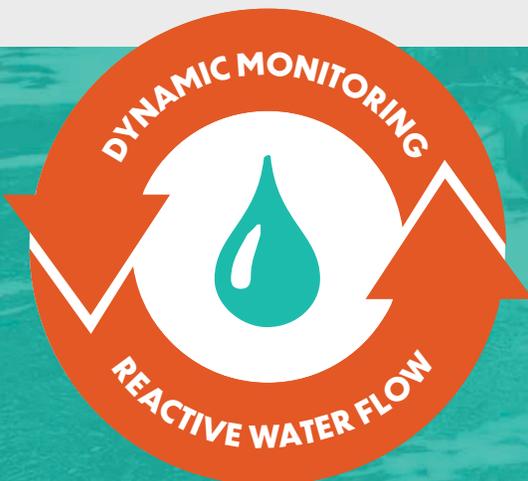
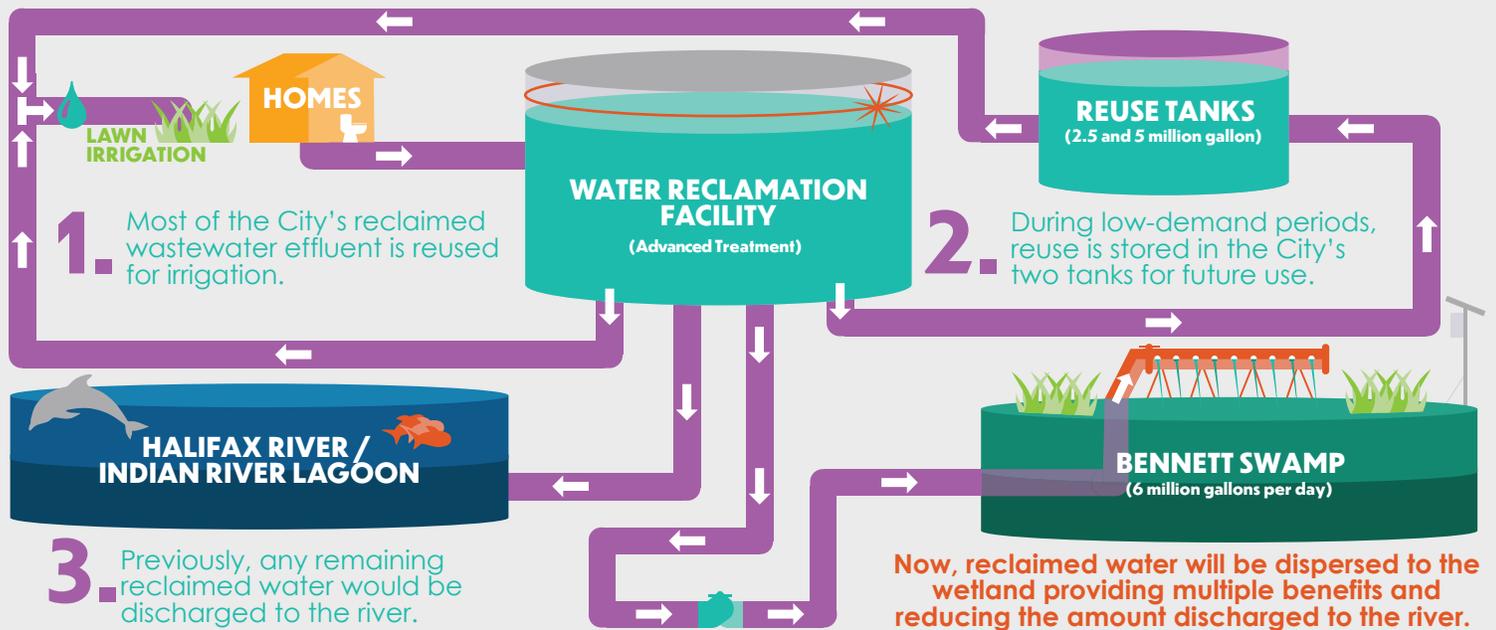




PROJECT OFFERS FAR-REACHING ENVIRONMENTAL BENEFITS

Bennett Swamp Rehydration & Conservation Project

This project was conceived by the City of Daytona Beach in discussion with the St. Johns River Water Management District during the update of the Central Springs and East Coast Regional Water Supply Plan. It is now a component of the City's long-term water reuse approach.



Advanced Hydration System

The City constructed an advanced hydration system that is permitted to redirect and disperse 6 million gallons per day of reclaimed water in several locations of Bennett Swamp. The actual dispersal rate will be determined by the availability of water and the monitoring results.

A network of 19,000 l.f. pipes, dispersal units, valves and meters will:

- Regulate flows throughout the system to beneficial levels
- Allow for seasonal resting in zones
- Direct water to areas of the swamp that benefit the most



Enhancing our Natural Systems

Wetland Restoration • Creates a healthy ecosystem for numerous species
 • Enhances 1,425 acres of Bennett Swamp wetlands

Water Supply • Recharges the Sole Source Aquifer
 • 6 million gallons of recharge = drinking water for 85,000 people
 • Provides 0.11 foot of rebound (8.46% of recovery needed) to the minimum flows and levels of Indian Lake.

Water Quality • Reduces nutrient loads to the Halifax River / Indian River Lagoon

INDIAN RIVER LAGOON
NITROGEN REMOVAL

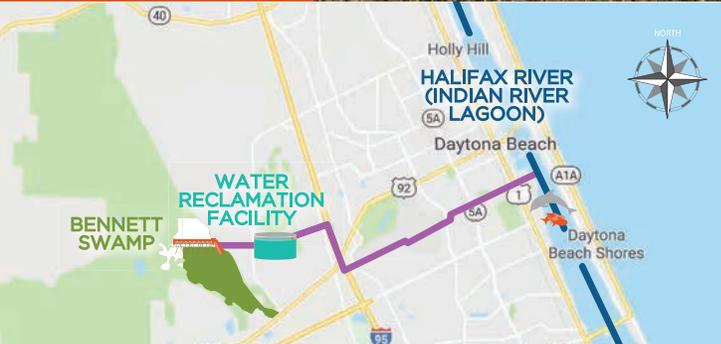
45,000 lbs.
 EPA impaired waters mandate

54,000 lbs.
 removed with 6 MG of reuse in Bennett Swamp

108,000 lbs.
 potential with 12 MG of reuse in Bennett Swamp



Dispersal Unit



Meter Assembly

FAST FACTS



SATELLITE TELEMETRY
 Installed to transmit real-time reuse flow data to the plant



SOLAR ENERGY
 Used to power the telemetry and pumps in the swamp



FIRE HYDRANTS
 Installed throughout swamp to aid in the control of forest fires

1,425

ACRE FLOWAGE EASEMENT
 Only 2.1 acres temporarily impacted during construction. Project expandable to 12 million gallons per day with no additional construction needed in swamp.



Satellite Telemetry

TOTAL COST
\$5,336,544
 GRANTS AWARDED
 SJRWMD: \$1,761,060
 FDEP: \$2,567,827

PARTNERSHIPS / COLLABORATIVE

Florida Department of Environmental Protection
 - Funding Partner (50%)

City of Daytona Beach
 - Conceive, Design, Construct, Operate and Monitor Project

St. Johns River Water Management District
 - Joint Land Owner
 - Funding Partner (33%)
 - Flowage Easement

State of Florida Trustees of the Internal Improvement Trust Fund
 - Joint Land Owner
 - Flowage Easement

Florida Forest Service (Division of Forestry)
 - Land Manager: Tiger Bay State Forest



#worldfamousDB
 @DBcitynews

FOLLOW US: