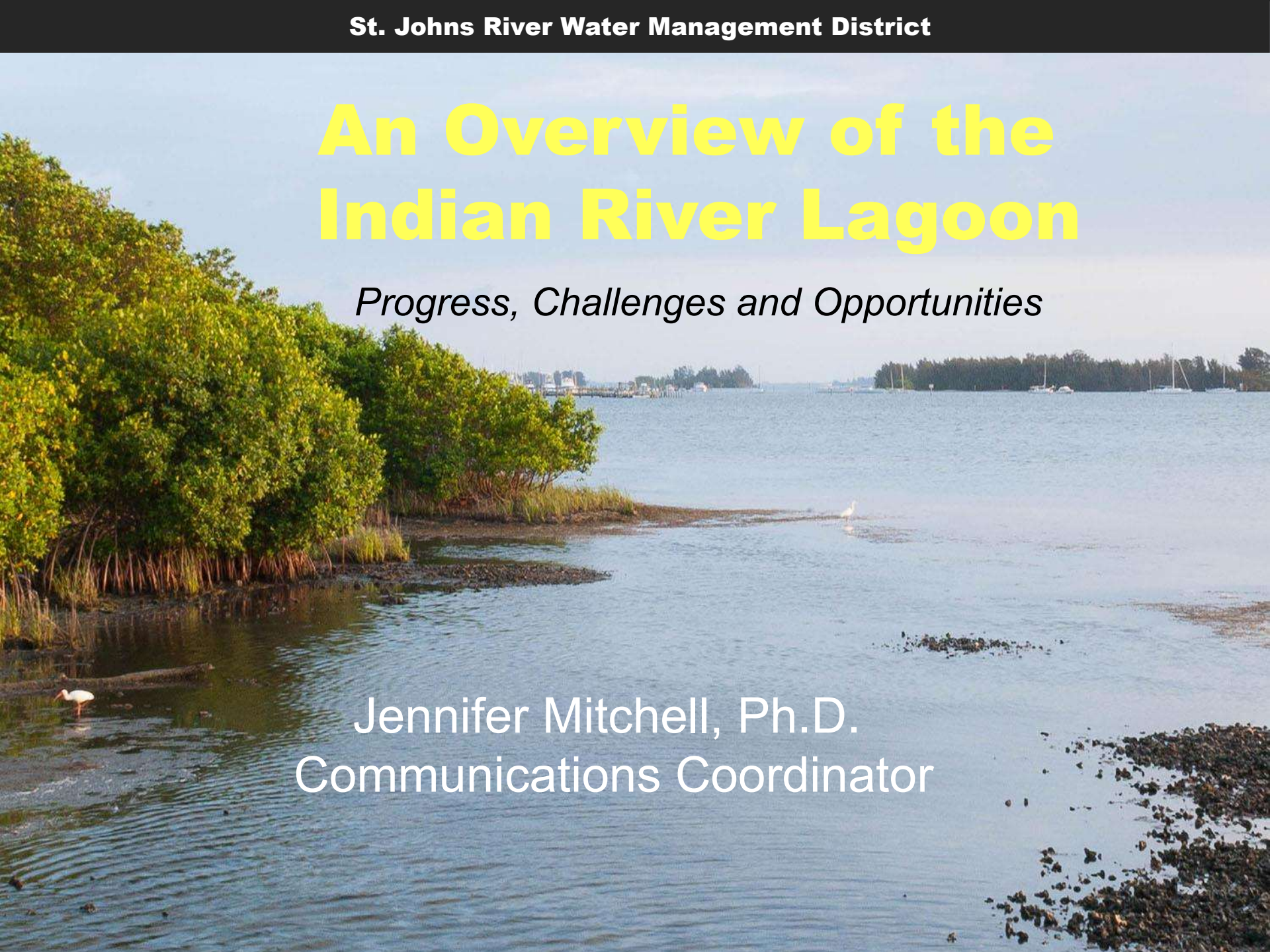


# An Overview of the Indian River Lagoon

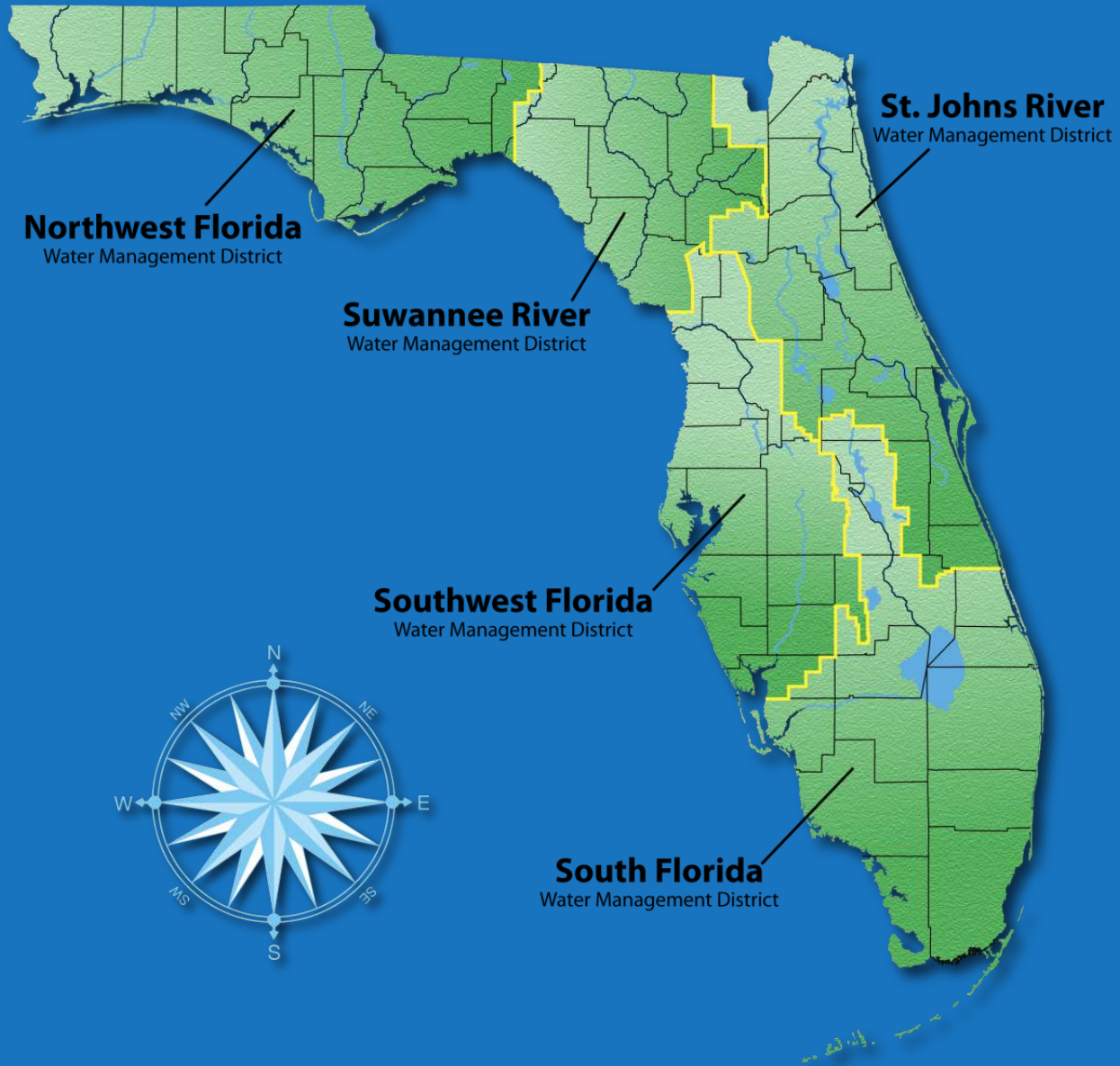
*Progress, Challenges and Opportunities*

Jennifer Mitchell, Ph.D.  
Communications Coordinator





# St. Johns River Water Management District



# Core Missions



Water supply



Water quality



Flood protection



Natural systems



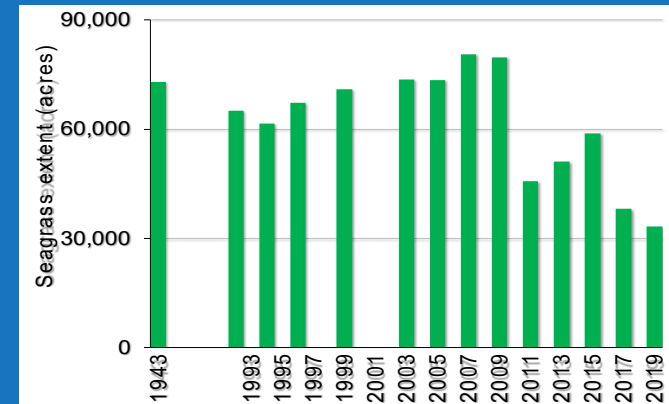
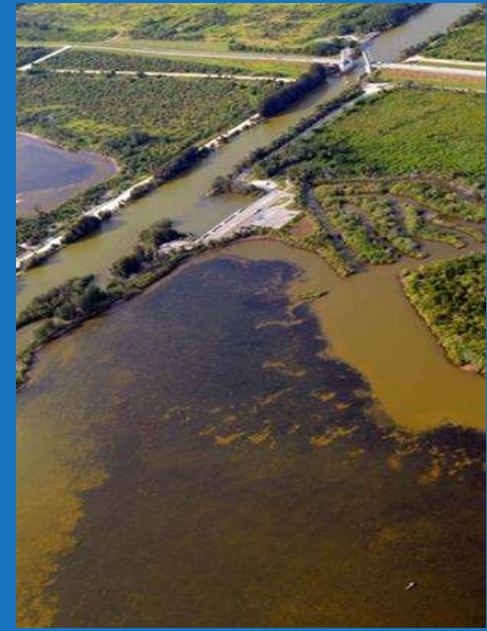
# Challenges and Goals

## Challenges

- Recurring algal blooms
- Extensive seagrass loss

## Goals

- Enhance scientific understanding
- Identify and implement solutions
- Improve communications



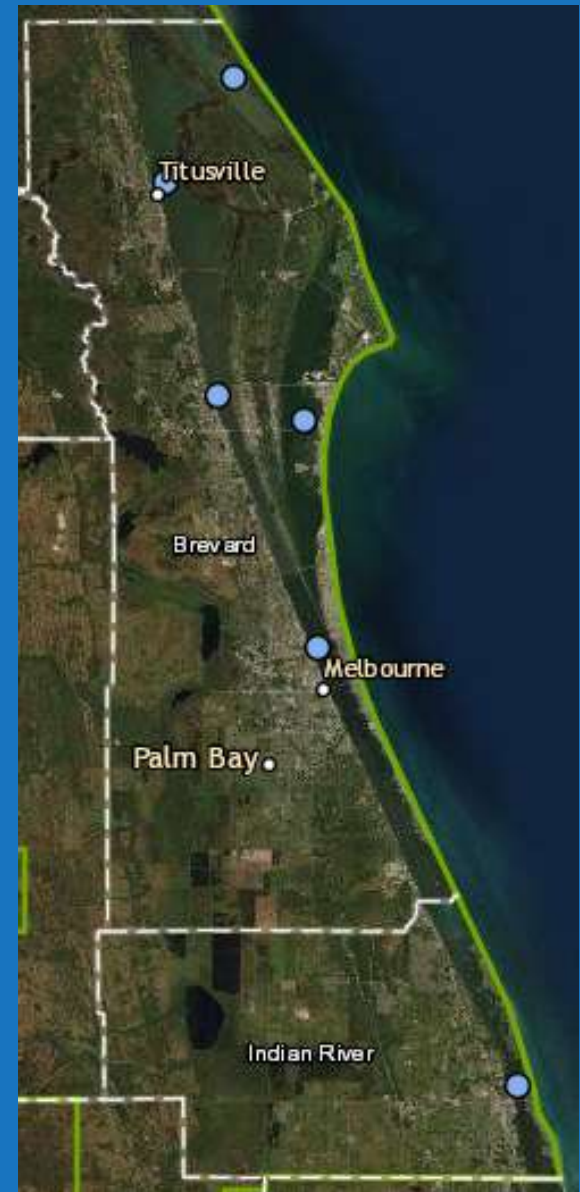
# Enhanced Monitoring

- Real-time data – Six locations
- Temperature, conductivity, salinity, pH, dissolved oxygen, chlorophyll-*a*

EXO-2 Sonde



Sensor array





# Nutrients from Muck Sediments

- Widespread muck sediments from stormwater runoff
- Past dredging:
  - Turkey Creek
  - Crane Creek
  - St. Sebastian River
  - Eau Gallie River



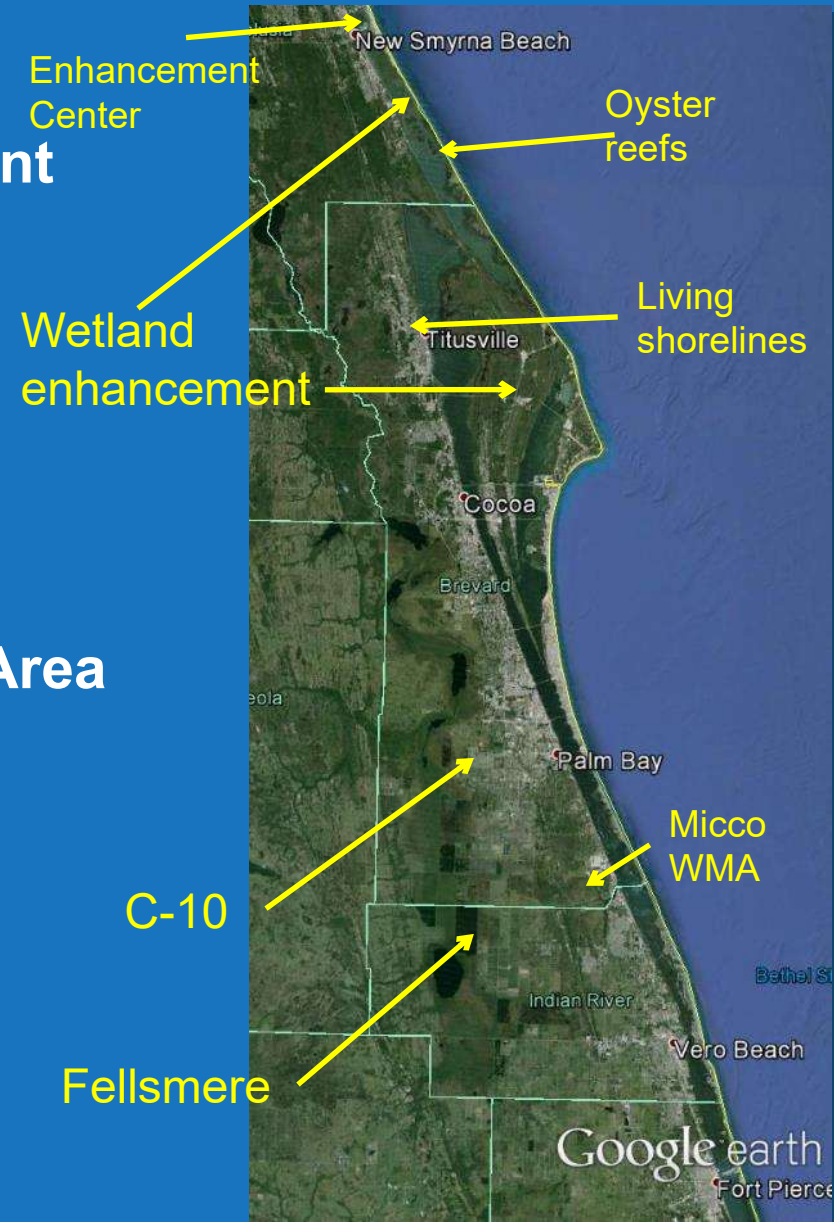
# Construction Projects

## Major construction

- Fellsmere Water Management Area (FWMA)
- Canal 1/Sawgrass Lake
- Wetland rehabilitation and habitat enhancement

## Smaller projects

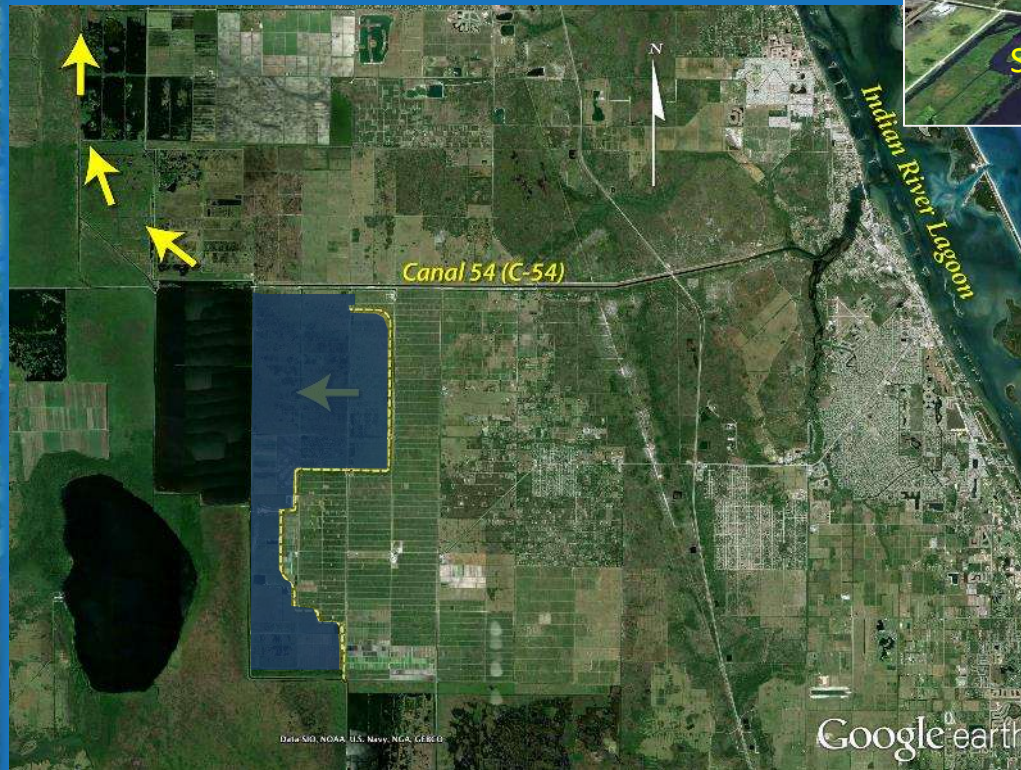
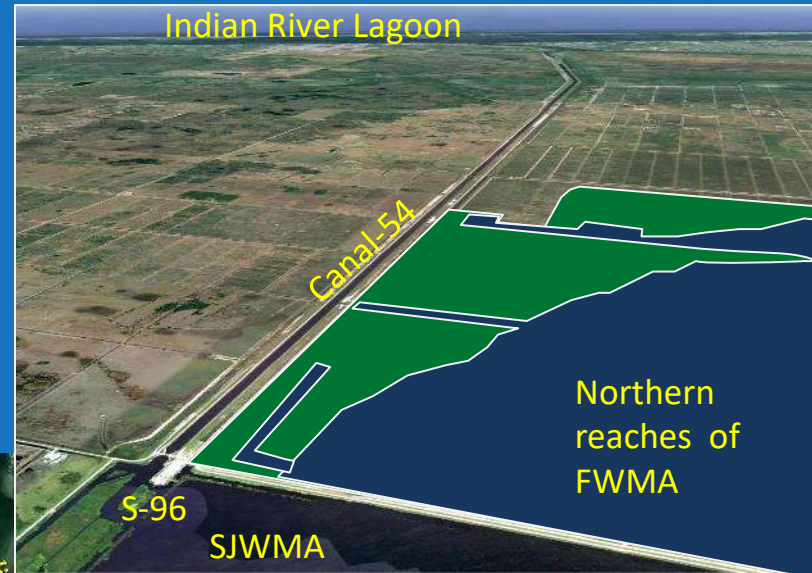
- Micco Water Management Area
- Oyster reef rehabilitation
- Mosquito Lagoon Marine Enhancement
- Lagoon cost-share projects





# Fellsmere Water Management Area

- Significantly reduces discharges from upper St. Johns River to lagoon from C-54 Canal
- Completed (including amenities)



SJWMA = St. Johns Water Management Area



# Canal 1/Sawgrass Lake Water Management Area

- Second phase of C-1 Re-diversion Project
- Re-diverts water back to historic St. Johns River basin



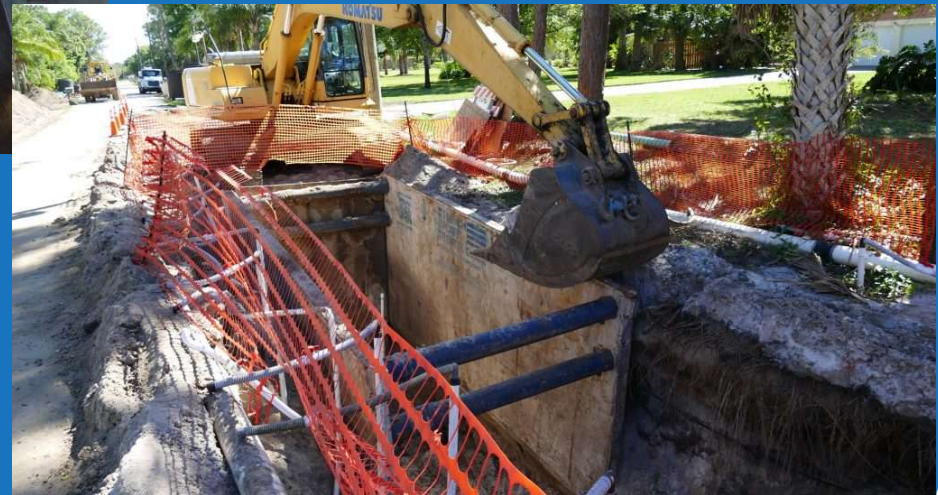


# Septic to Sewer Projects

- Reducing nutrient loading from septic tanks.



- Rockledge
- Merritt Island
- West Melbourne
- West Wabasso





# City of Titusville Draa Field Stormwater Park

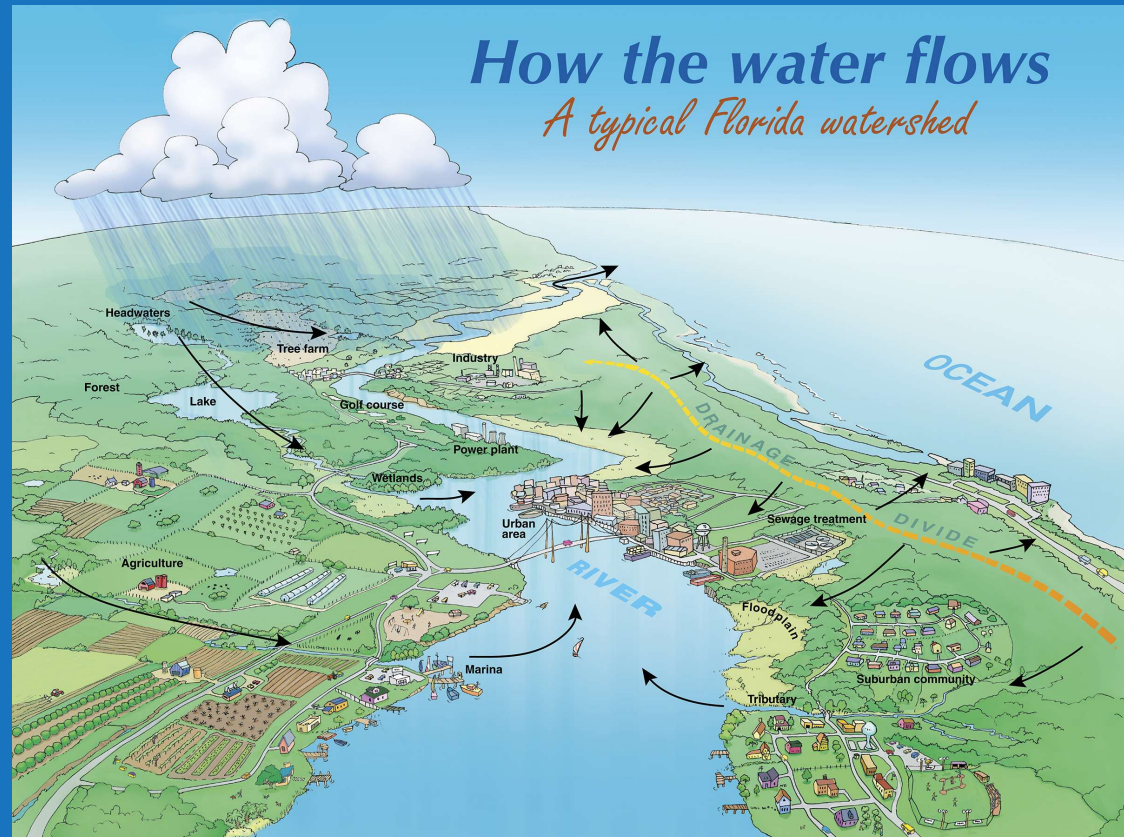
- TN load reduction to IRL: 920 lbs./yr estimated
- TP load reduction to IRL: 200 lbs./yr estimated
- Total construction cost: \$1.5 million
- District funding: \$0.37 million



# What We Can All Do

- Understand the issues

- Fertilizer
- Grass clippings
- Pet waste
- Storm drains





# What We Can All Do

- Understand the issues
  - Over-irrigation
  - Run-off
  - Nutrients

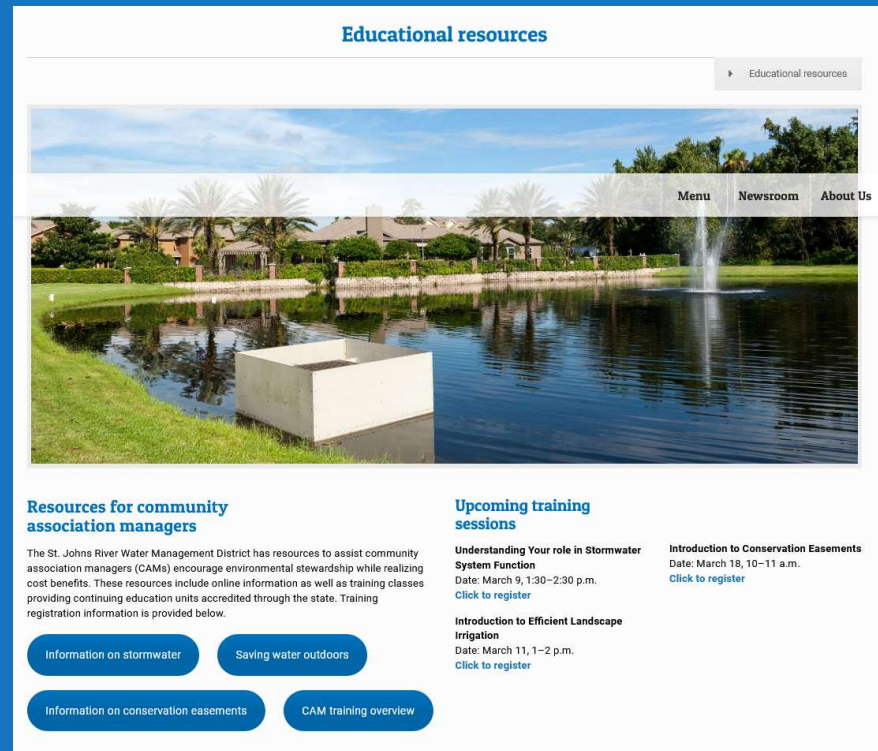



Did you set it and forget it?  
Check your sprinkler settings today.



# What We Can All Do

- Trainings for Community Association Managers
  - Stormwater management
  - Conservation easements
  - Irrigation



The screenshot shows the 'Educational resources' page of the St. Johns River Water Management District website. The page features a large banner image of a pond with a fountain and a concrete structure. Below the banner, there are navigation links for 'Menu', 'Newsroom', and 'About Us'. The main content area is divided into two columns. The left column is titled 'Resources for community association managers' and contains a paragraph about the district's resources for CAMs, followed by four buttons: 'Information on stormwater', 'Saving water outdoors', 'Information on conservation easements', and 'CAM training overview'. The right column is titled 'Upcoming training sessions' and lists two sessions: 'Understanding Your role in Stormwater System Function' and 'Introduction to Efficient Landscape Irrigation', each with a date, time, and a 'Click to register' link.

**Educational resources**

Menu Newsroom About Us

**Resources for community association managers**

The St. Johns River Water Management District has resources to assist community association managers (CAMs) encourage environmental stewardship while realizing cost benefits. These resources include online information as well as training classes providing continuing education units accredited through the state. Training registration information is provided below.

[Information on stormwater](#) [Saving water outdoors](#)

[Information on conservation easements](#) [CAM training overview](#)

**Upcoming training sessions**

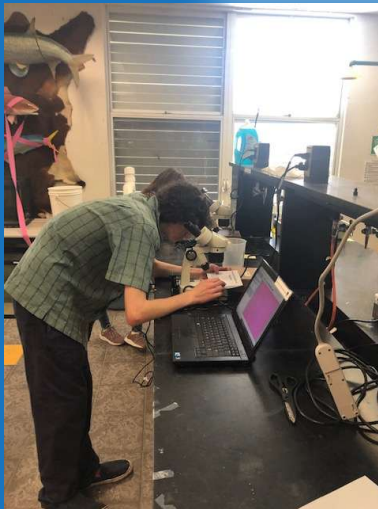
**Understanding Your role in Stormwater System Function**  
Date: March 9, 1:30–2:30 p.m.  
[Click to register](#)

**Introduction to Efficient Landscape Irrigation**  
Date: March 11, 1–2 p.m.  
[Click to register](#)

**Introduction to Conservation Easements**  
Date: March 18, 10–11 a.m.  
[Click to register](#)



# BLUE SCHOOL GRANT PROGRAM



# Thank You



[www.sjrwmd.com/waterways/indian-river-lagoon](http://www.sjrwmd.com/waterways/indian-river-lagoon)