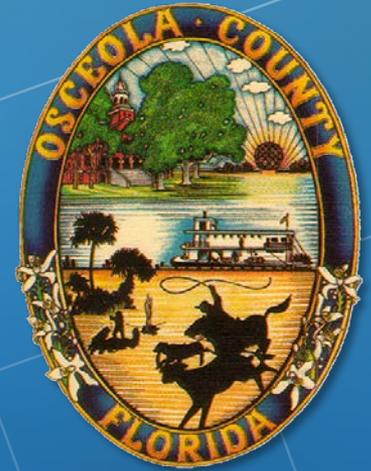


# Welcome to Osceola County

Home to the Kissimmee Chain of Lakes

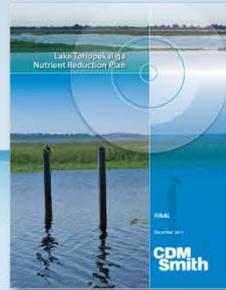
June 12, 2014



# Working on Water Quality



**November 2010**  
Lake Toho Impairment  
Adopted Verified List



**February 2012**  
Lake Toho NRP  
complete



**February 2013**  
Lake O BMAP  
kickoff



**February 2014**  
Master Plan Update  
completed/ First NRP update

**2010**

**2011**

**2012**

**2013**

**2014**

**April 2011**  
Stakeholders move  
forward with NRP

**September 2012**  
County initiates  
Master Plan Update

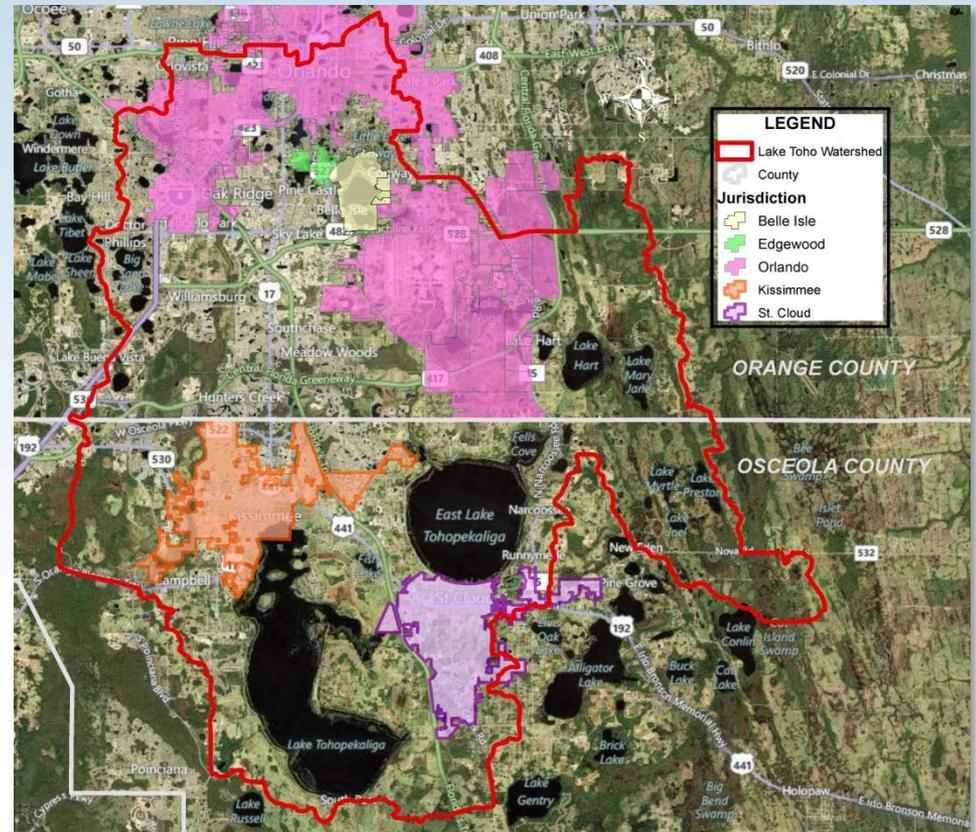
**December 2013**  
UKRB TMDLs  
adopted

**September 2014**  
Anticipated  
Lake O BMAP  
completion



# Lake Tohopekaliga (Toho) Watershed Background

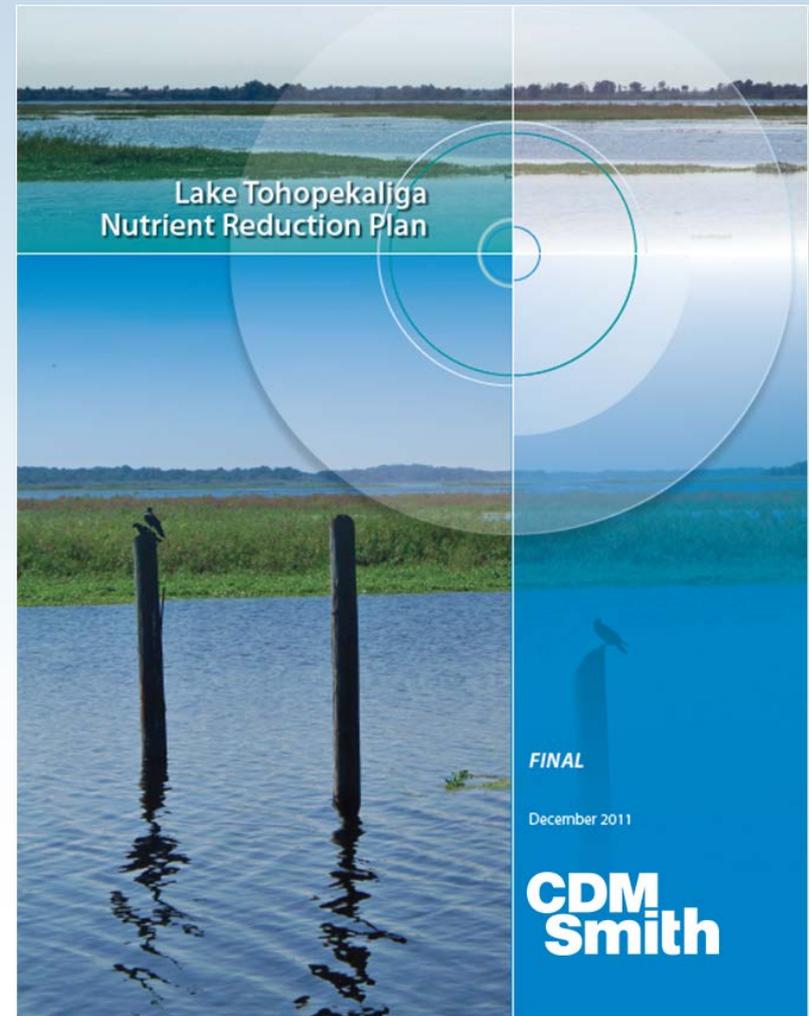
- Regional economic importance
  - Popular for fishing, hunting, boating, bird watching and sightseeing
- Many operational & management challenges
- Most populated area of Upper Kissimmee Basin
- Flashy System – more storage needed in key locations





# Lake Toho Nutrient Reduction Plan (NRP)

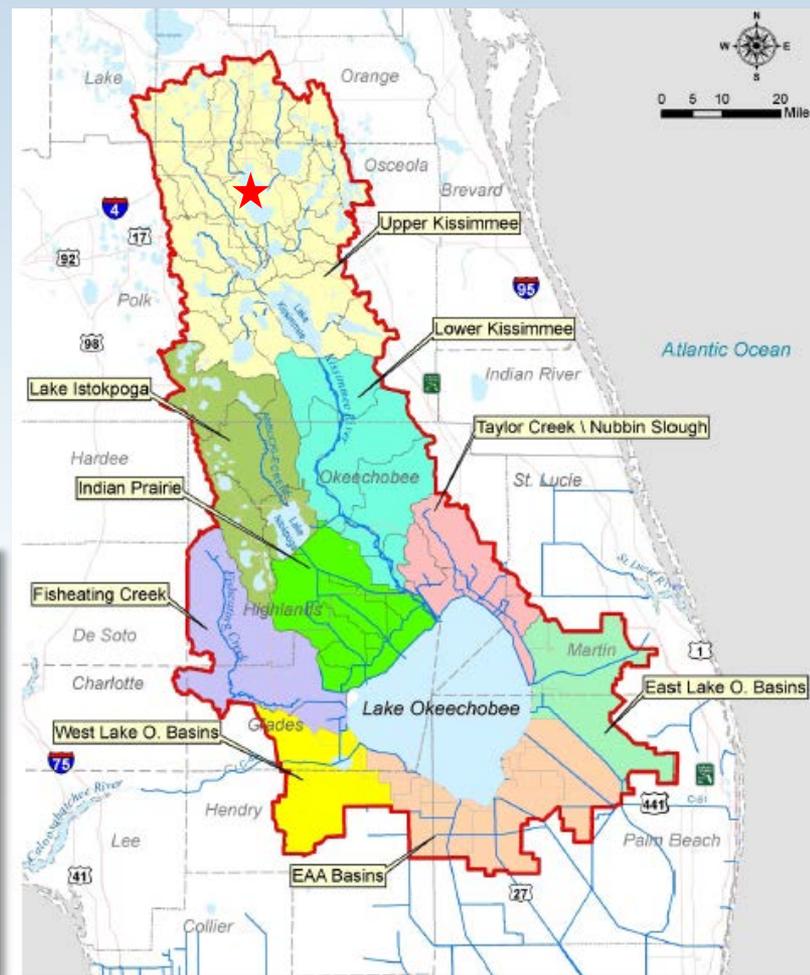
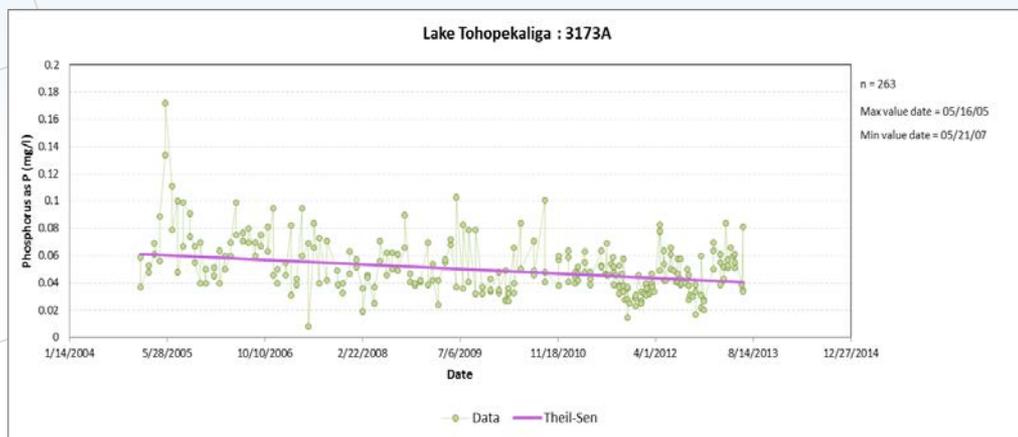
- *Voluntary* multi-jurisdictional collaborative effort
- Similar to a Basin Management Action Plan (BMAP)
- SFWMD provided technical support
- Plan completed in 5 Months
- Adopted by FDEP Feb. 2012
- Implementation began prior to formal adoption





# Lake Toho NRP's Role in the Lake O BMAP

- Gives NRP stakeholders a “head start”
- Strategic monitoring already in place
- Lake Toho average TP = 0.05 mg/L
- TP has been consistently decreasing
- Projects and implementation underway



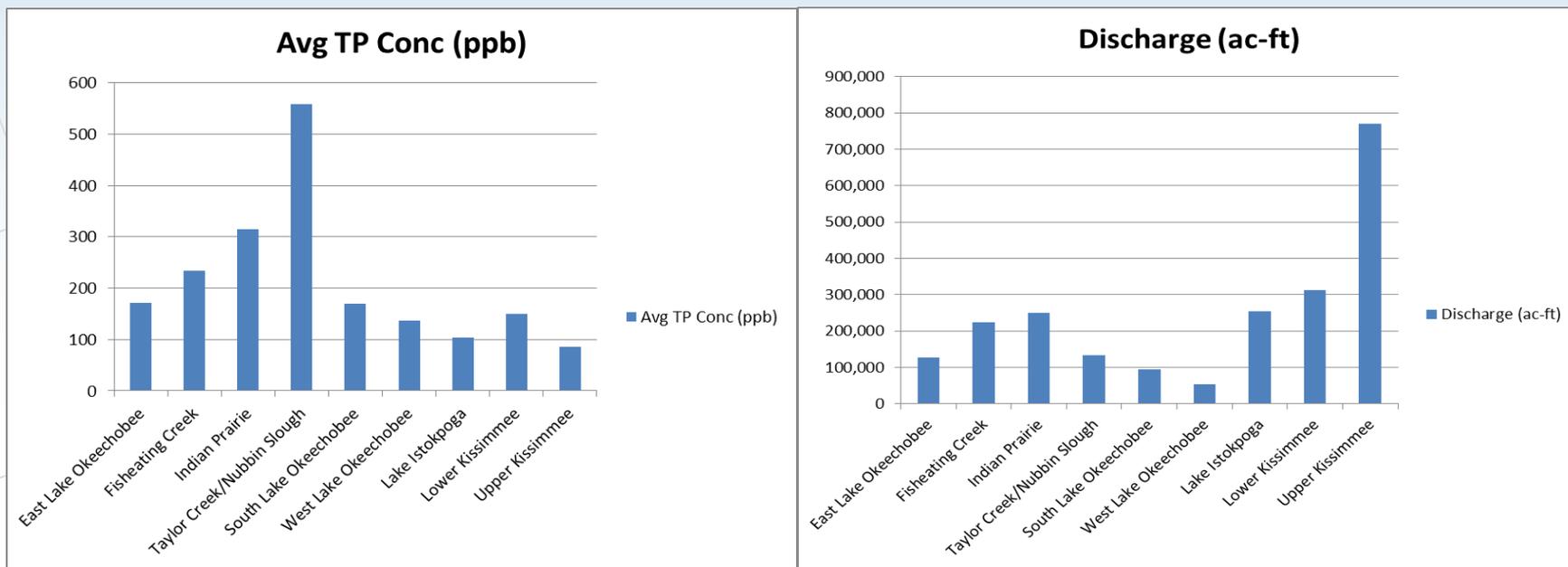
Source: SFWMD, 2011



# Upper Kissimmee Sub-Watershed's Role

- Lowest Average TP Concentration
- Highest Discharge
- Higher Volume = Higher Loads
- The Answer = **STORAGE**

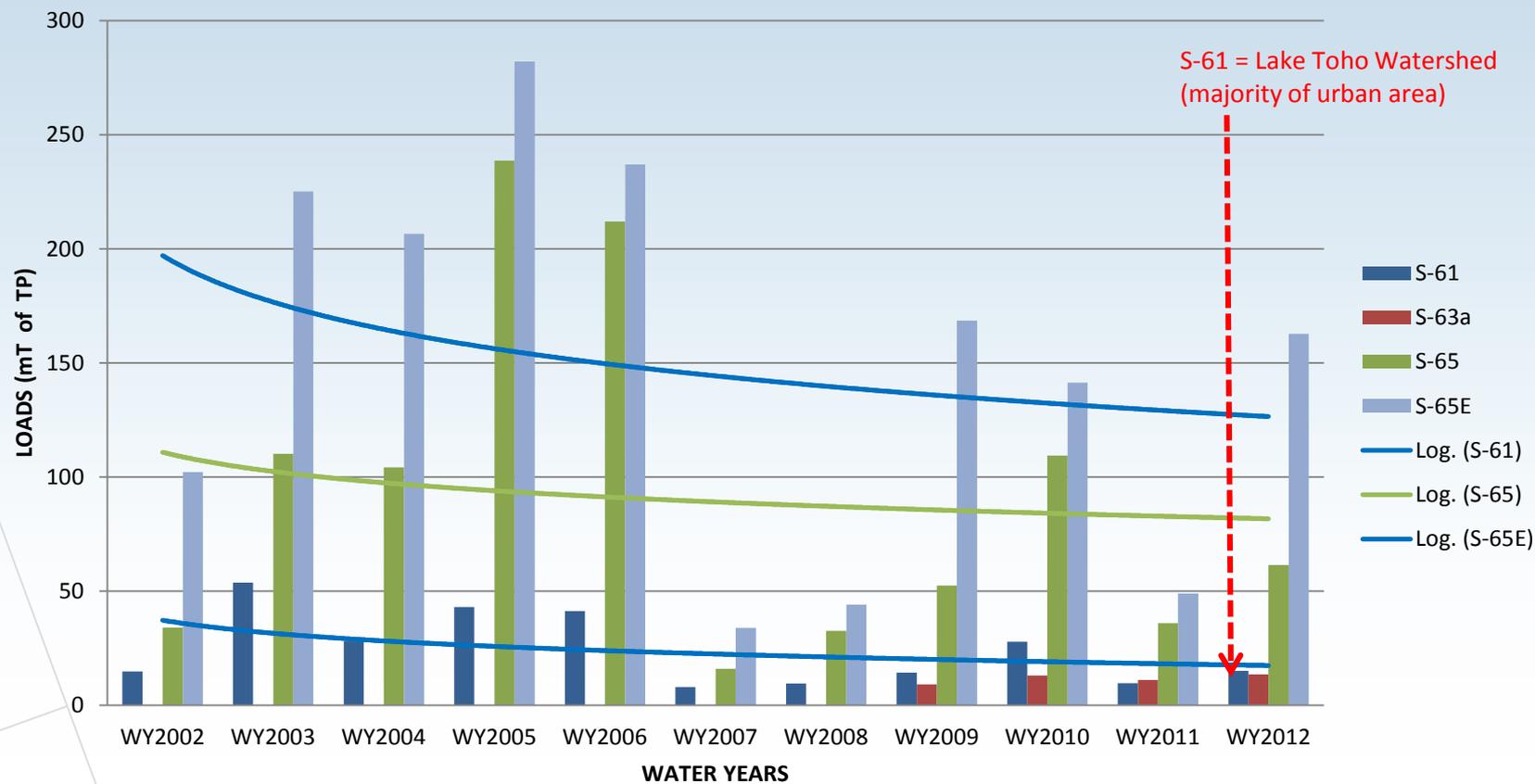
Water Years 2001-2013



Source: FDEP, 2013



# TP Load Averages at Structures WY 2002 -2012

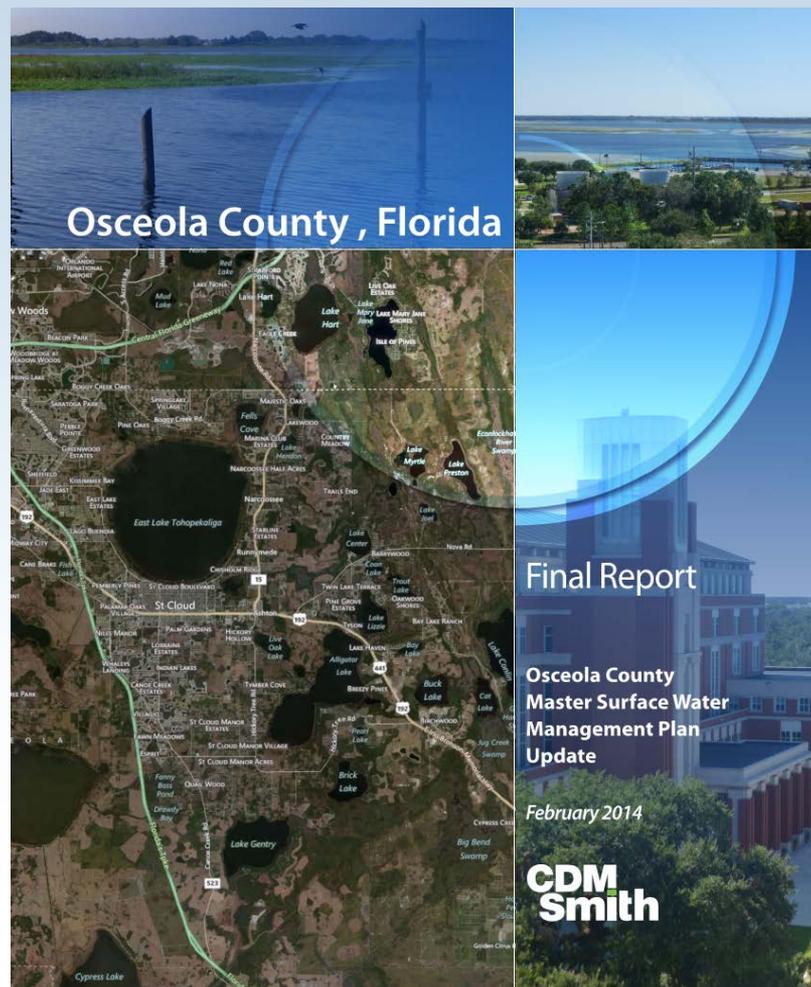


Source: SFWMD, 2013

# We Need a New Master Plan!



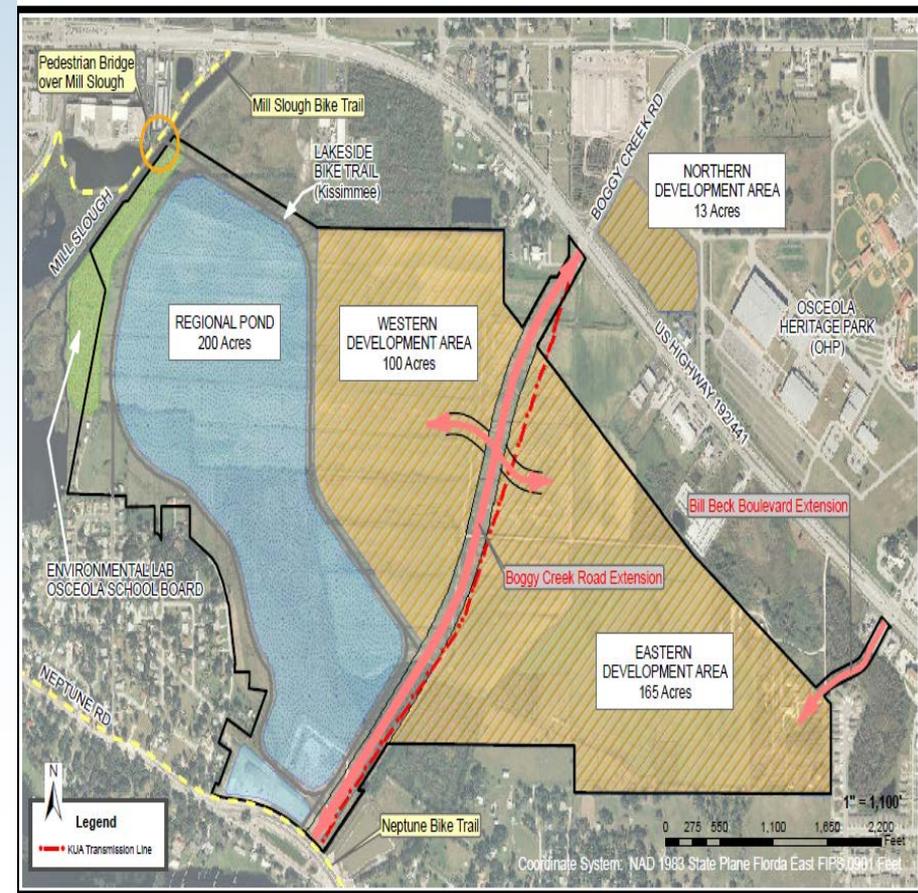
- Completed County-Wide Master Plan Update in early 2014
- Previous updates historically “flood control” driven
- Large water quality component
- Identified nutrient loading “hot spots”
- Proposed projects based on current County lands



# Lake Tohopekaliga Restoration Initiative



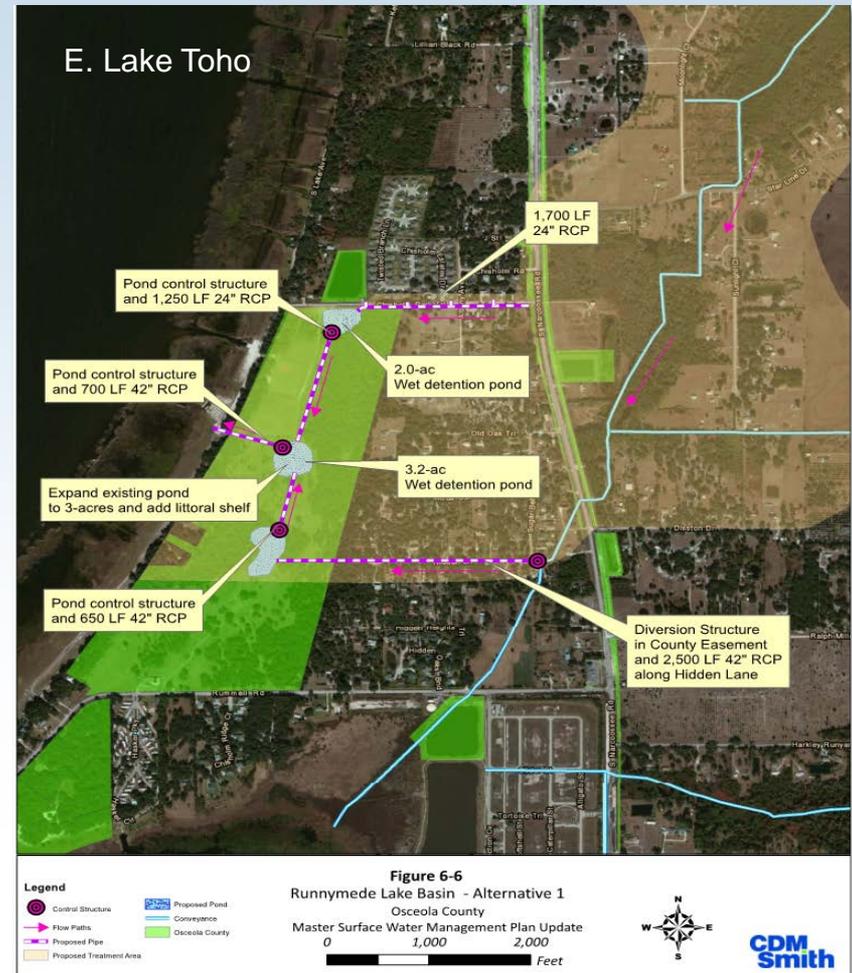
- Joint regional project w/ Kissimmee, Osceola County, St. Cloud & Toho Water Authority
- 10,198 acres of watershed
- Land Acquisition completed May 2014
- Design in progress
- Final design, use & funding determines load reductions
  - TN range = 29,454 - 71,294 lbs./yr.
  - TP range = 5,629–7,684 lbs./yr.



# Chisholm Regional Park Treatment Facility



- Wet detention treatment train
- 1,136 acres of treatment area
- Preliminary Engineering to start July 2014
- Estimated nutrient removal
  - TN = 2,334 lbs./yr.
  - TP = 411 lbs./yr.





# Kissimmee View Treatment Facility

- Wet detention treatment retrofit for older development on septic
- 133 acres of treatment area
- Provides additional storage for flood prone area
- Preliminary Engineering to start August 2014
- Estimated nutrient removal
  - TN = 488 lbs./yr.
  - TP = 116 lbs./yr.



# Many Other Projects Under Consideration



- Gator Bay Slough Regional Treatment Facility
- Partin Canal Regional Treatment Facility
- Shingle Creek Regional Park Pond Expansion
- Kissimmee Park Road Regional Treatment Facility
- Cypress Parkway Treatment Pond
- Buenaventura Lakes Pond Expansions

# Questions?

