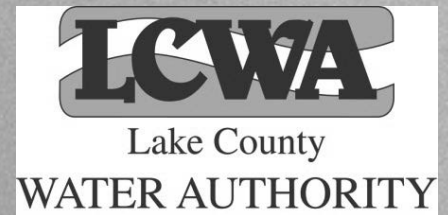


Lake Apopka Restoration

Proposed projects for
2012-13 Legislative Appropriation



Background

In 2012, the Legislature appropriated \$4,800,000 for Lake Apopka to:

- Restore and enhance habitat to improve fisheries
- Improve water quality
- Focused sediment removal
- Evaluate innovative new technology



Proviso Language

- From the funds in Specific Appropriation 1863A, the Fish and Wildlife Conservation Commission, in cooperation with the Department of Environmental Protection, the St. Johns River Water Management District, the Lake County Water Authority, and the University of Florida, shall develop and submit a prioritized list of restoration projects designed to improve the water quality and ecology in Lake Apopka to the Chair of the Senate Budget Committee on Appropriations and the Chair of the House Appropriations Committee. Projects to be considered may include, but not be limited to, innovative technologies for water quality improvement, habitat restoration to improve water clarity and recreational fisheries, and focused nutrient-enriched sediment removal.



Proposed Project Goals

- Achieve 10% coverage of native emergent and submersed vegetation within 10 years of project initiation.
- Enhance utilization of current fishery through improvements in public access (channels and associated facilities), installation of fish attractors, and stocking.
- Test innovative technologies for water quality and habitat improvement.



Restoration Challenges

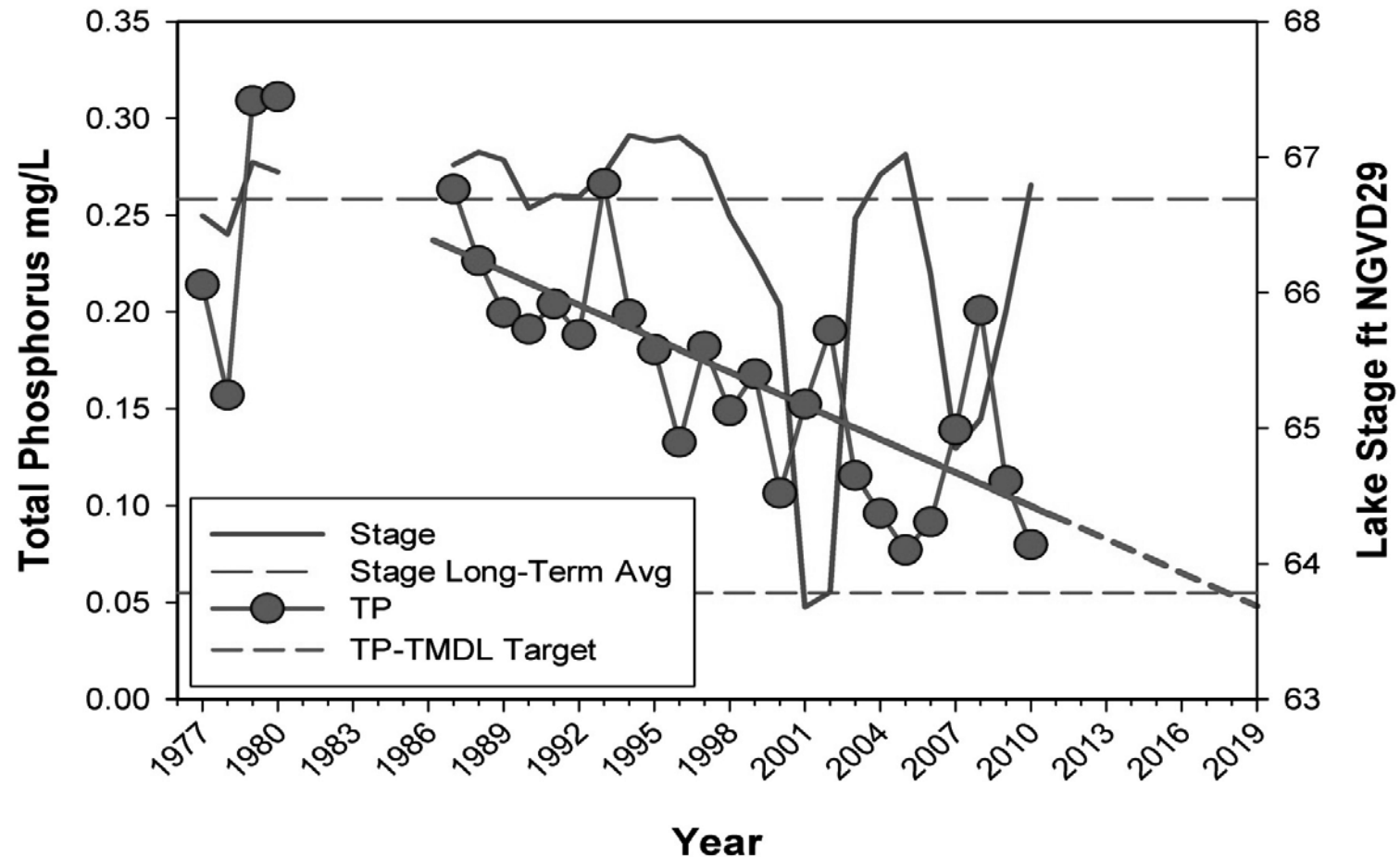
- Insufficient desirable fisheries habitat.
- Limited public access during low water periods.
- High volumes of unconsolidated organic substrate.
- Further improvements to water quality and clarity.



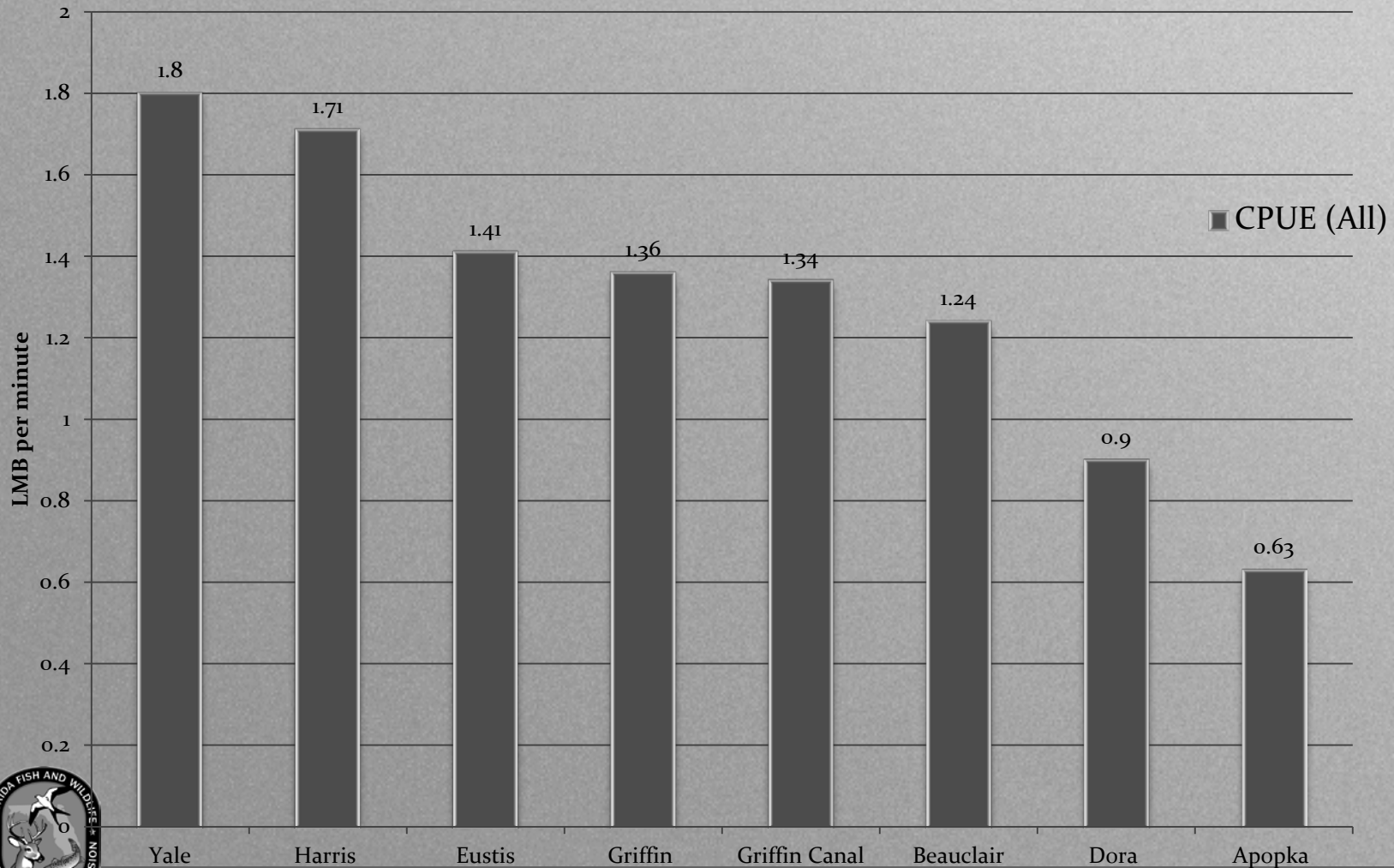
Unconsolidated Sediments



Lake Apopka water quality improvements



Bass Populations Harris Chain



Project Selection

- A working group was established to evaluate potential projects.
- The working group was comprised of various State and Local entities, including Orange County.
- The working group has provided a list of potential projects to the Legislature.



Prioritized Projects Summary

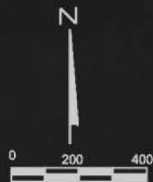
- Winter Garden/Lakeshore Park Dredging \$2,000,000
(an additional \$1 million from SJRWMD
is pending final approval by Governing
Board)
- Magnolia Landing Access/Improvement \$1,000,000
- Fisheries Habitat Restoration \$1,000,000
- Fish attractor construction \$ 200,000
- Innovative Techniques for Phosphorus/
Nutrient Removal \$ 600,000
- Total \$4,800,000



Winter Garden Dredging

- SJRWMD will be lead agency.
- Dredge an access channel from the ramp to deeper water to provide boater access.
- Dredge sediment adjacent to park to create a fishing area and to improve habitat.





NOTE:
NOT ISSUED FOR CONSTRUCTION
CONCEPTUAL PLAN FOR
PLANNING PURPOSES ONLY

2000' x 135' x 4'
CHANNEL
(ACTUAL DREDGE DEPTH
RANGES FROM 3' TO 1')
20,000 CY

35 ACRE X 3'
SHORELINE DREDGE AREA
170000 CY

| | | | | | |
|---------------------------------------|--|----------------|--|-----------------------------|--|
| PROJECT NUMBER: | | DIVISION DIR.: | | PROJECT MGR.: | |
| ST. JOHNS RIVER | | DATE: MAY 2012 | | REVIEWED: | |
| WATER MANAGEMENT DISTRICT | | RUN | | DRAWN: | |
| 25633 CR44B-A MT. DORA, FLORIDA 32757 | | DRAWING | | DREDGE CONCEPTUAL SITE PLAN | |

NOTE:
NOT ISSUED FOR CONSTRUCTION
CONCEPTUAL PLAN FOR
PLANNING PURPOSES ONLY



SEDIMENT DEWATERING
AND DISPOSAL AREA

SEDIMENT DISCHARGE
HEADER PIPE

BOOSTER

BOOSTER

BOOSTER

BOOSTER

2000' x 135' x 4'
CHANNEL
(ACTUAL DREDGE DEPTH
RANGES FROM 3' TO 1')
20,000 CY

35 ACRE x 3'
SHORELINE
DREDGE AREA
170,000 CY

DREDGE

PROJECT NUMBER:
DIVISION DR:
PROJECT MGR:
SHEET NUMBER: 1



**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
25803 CR446-A MT. DORA, FLORIDA 32717



DESIGNED: RUN
SCALE:
DATE: MAY 2012
REVIEWED:
SECTION CHIEF:

**WINTER GARDEN BOAT RAMP
DREDGING CONCEPTUAL PLAN**

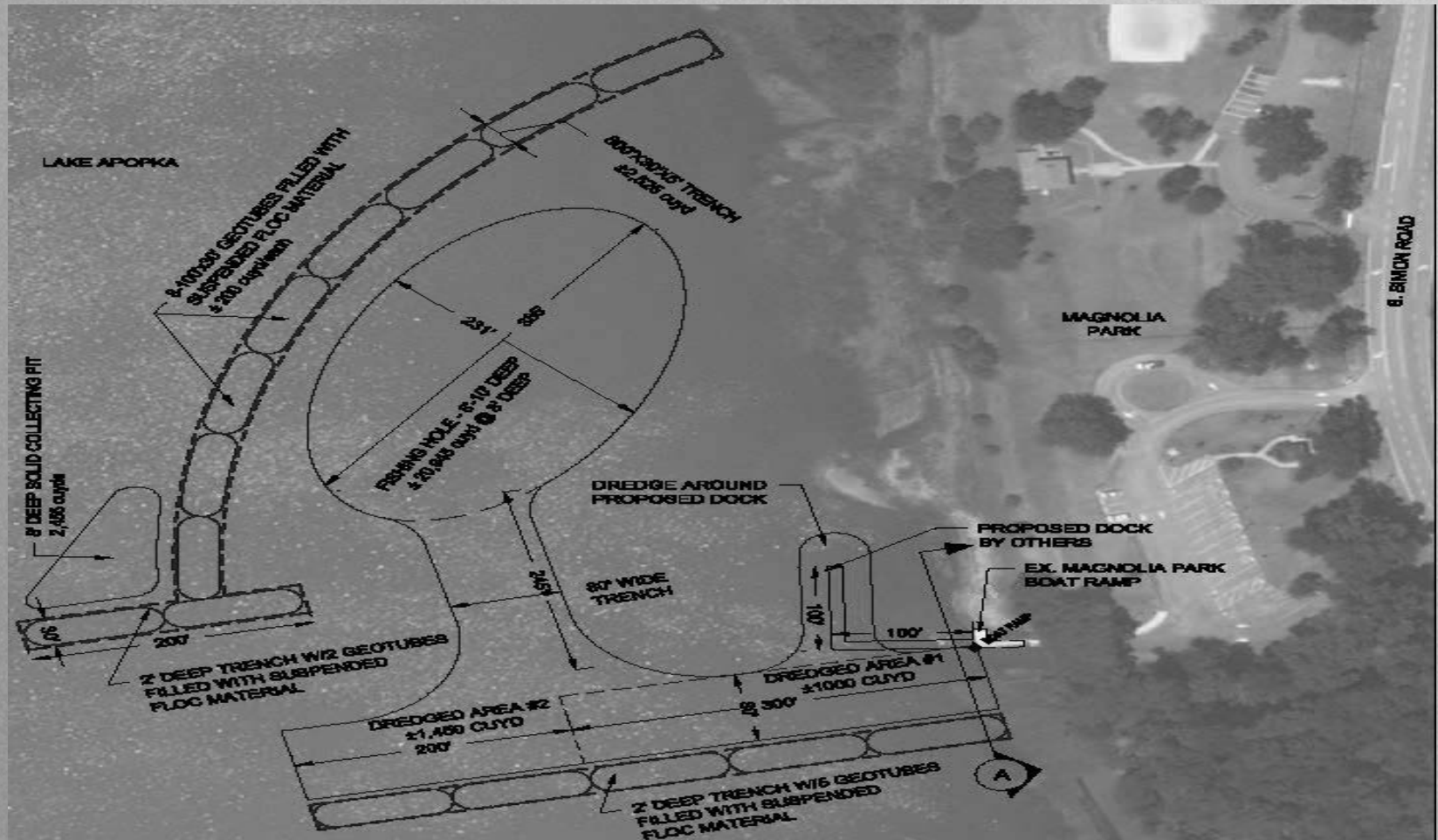
OVERALL PLAN (190,000 CY OF DREDGING)

Magnolia Park Dredging

- UF-IFAS will be lead agency.
- Dredge an access channel from the ramp to deeper water to provide boater access.
- Dredge an area next to shore to provide a bank fishing area.
- Evaluate rapid dewatering technology for dredged sediments/geotubes.



Magnolia Landing – UF



Fisheries Habitat Restoration

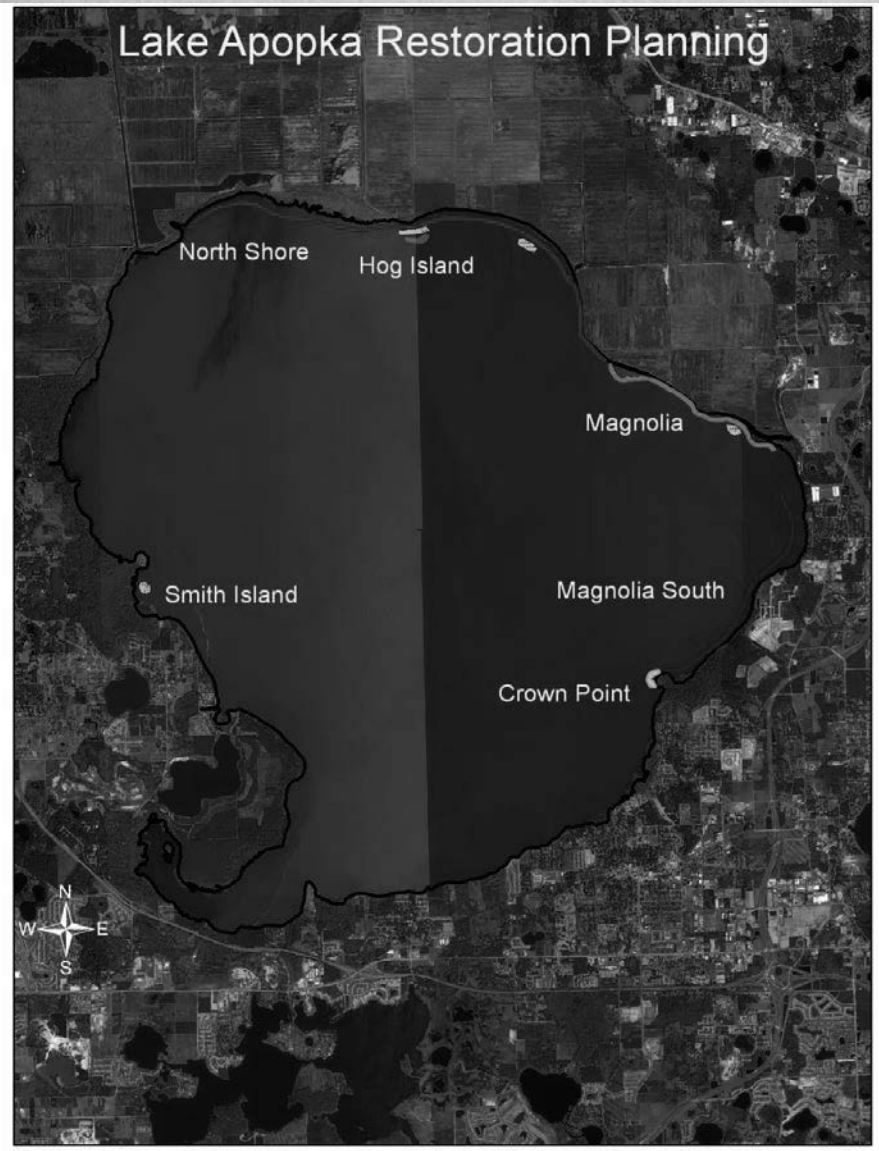
- FWC will be lead agency.
- Plant native aquatic plants to provide fish/wildlife habitat and improve water quality.
- Install brush fish attractors to help anglers catch existing fish populations.
- Stock Sunshine Bass to maintain/improve a popular existing fishery.



FWC Planting



Planting Locations



Fish Attractors



Innovative Technologies for Phosphorus Reduction

- DEP and SJRWMD will investigate innovative new technologies to remove phosphorus from the lake.
- UF Institute for the Commercialization of Public Research.



Questions?

