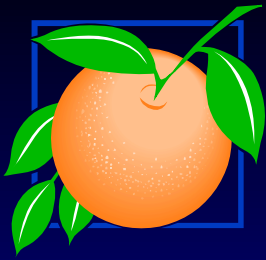


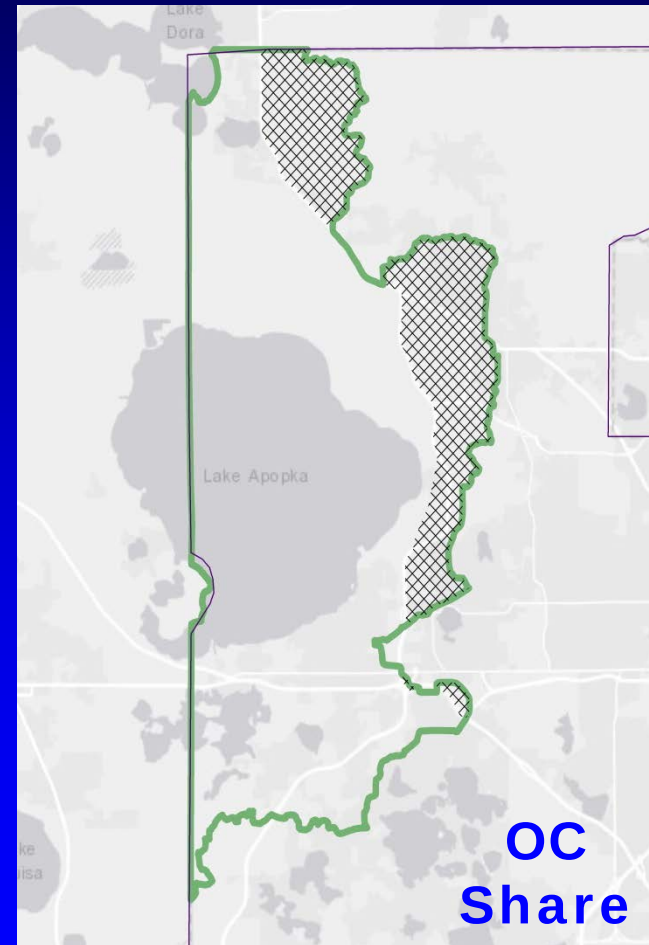
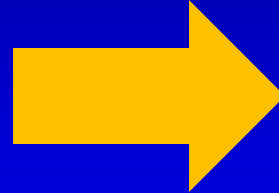
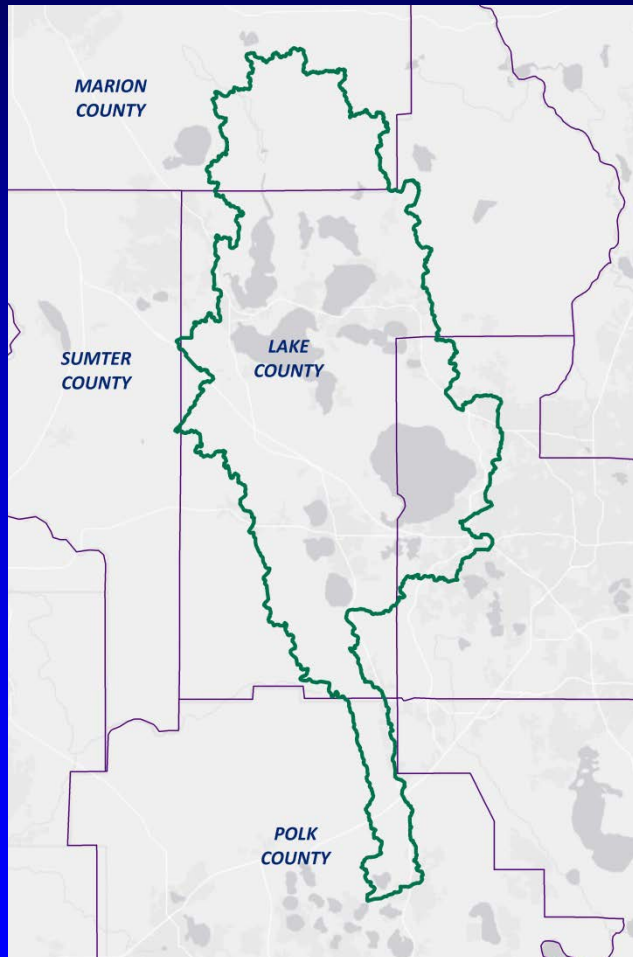
Orange County Environmental Protection Division

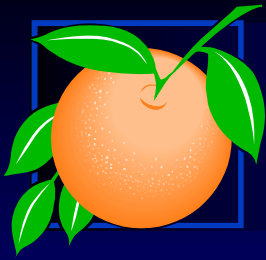
Recent Project Work in the Upper Ocklawaha River Basin

**August 21, 2019
UF/ IFAS Extension Office
Auditorium
Tavares, Florida**



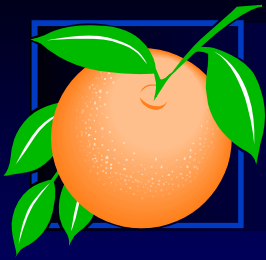
Upper Ocklawaha River BMAP Area (UORB)



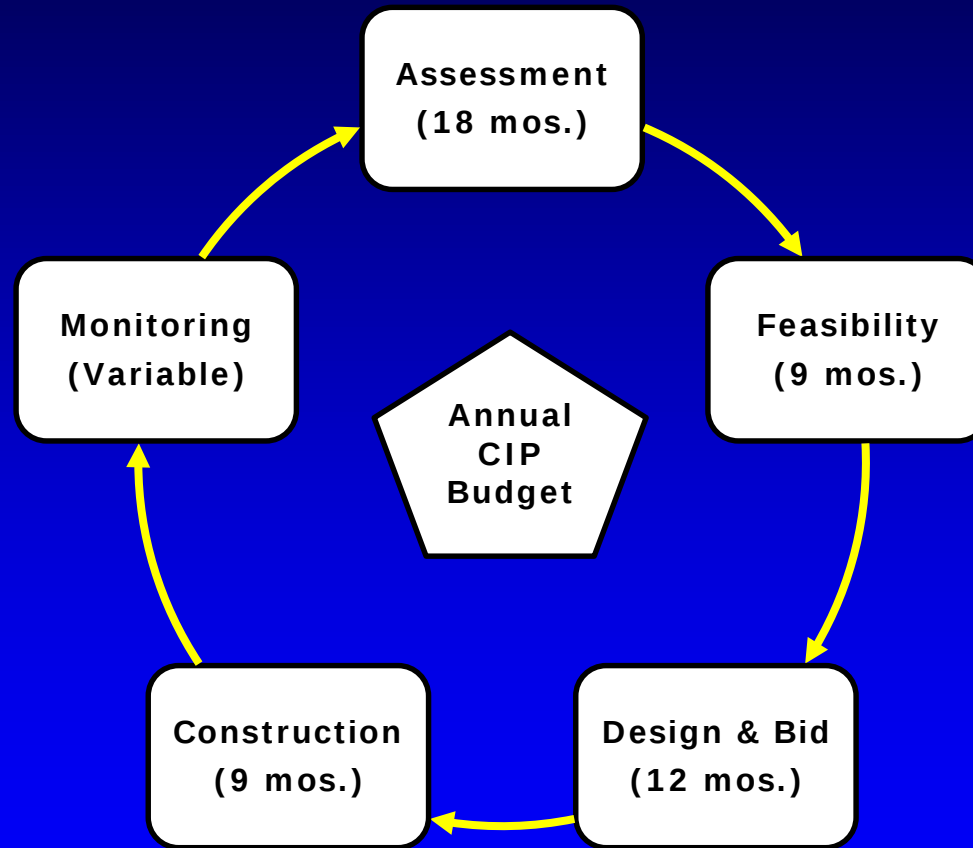


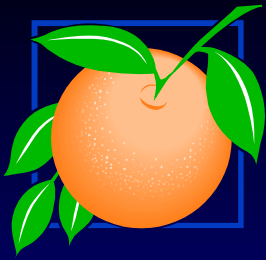
OC Share

- **UORB**
 - 878 mi² in UORB.
 - 132 mi² in Orange County (~15%).
- **OC: Nine impaired water bodies; four with adopted TMDLs (as of August 01, 2018).**
- **The UORB is one of five BMAP areas in OC.**
- **How does EPD address the demand for projects?**

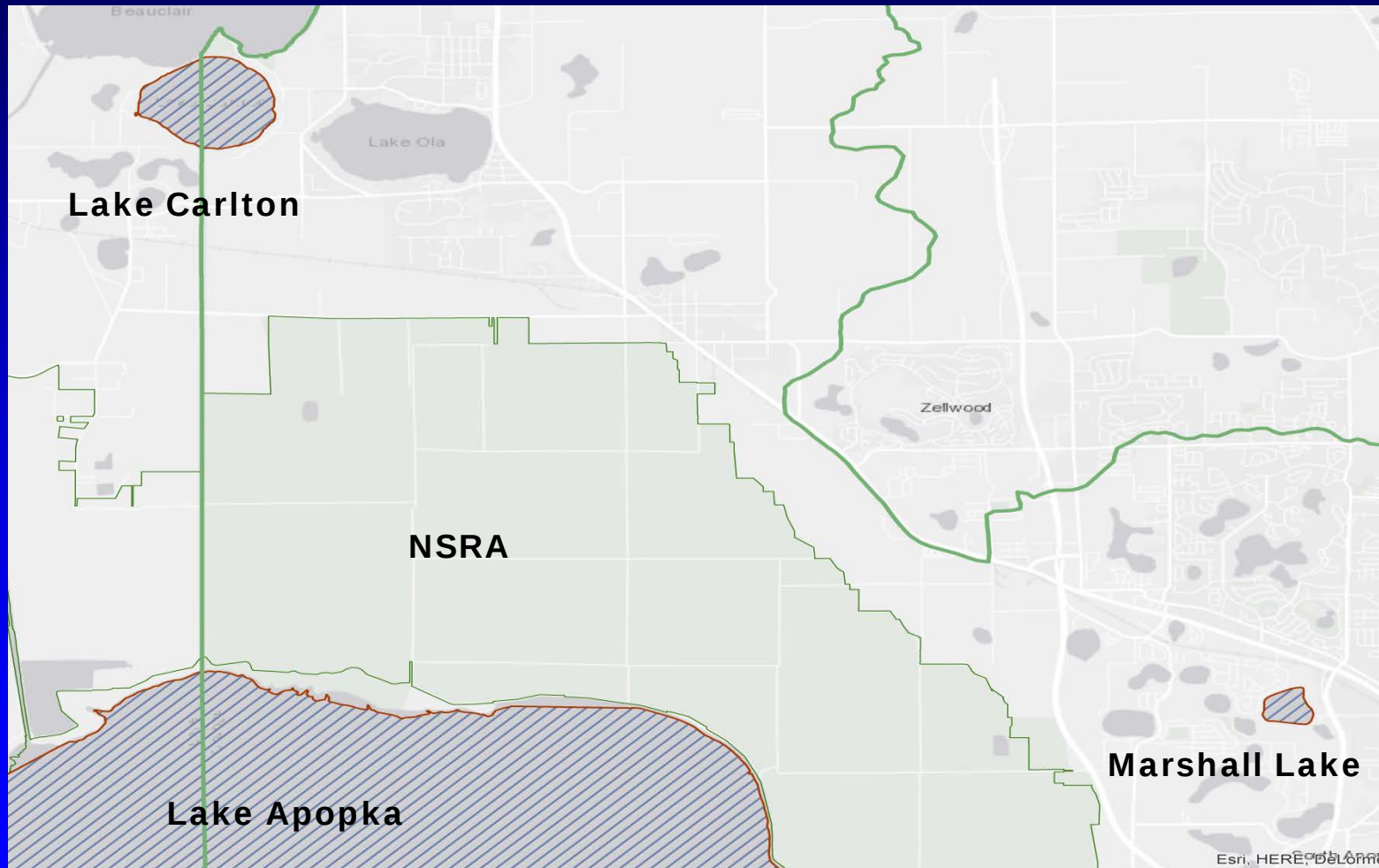


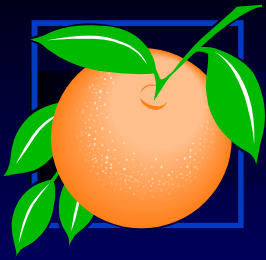
Water Sciences Project Cycle





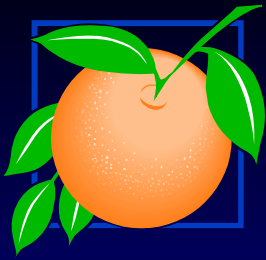
North End of UORB: Carlton, Apopka & Marshall



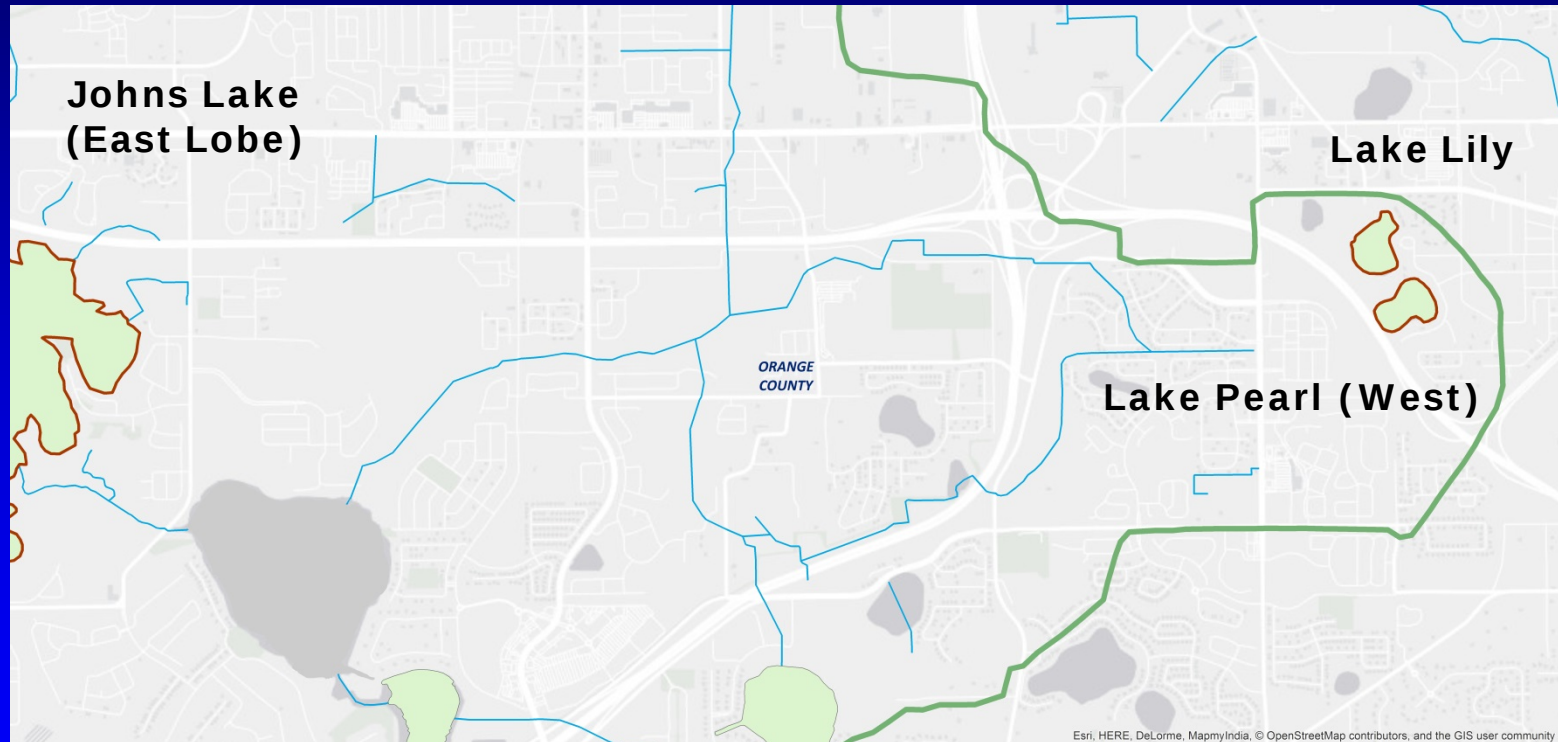


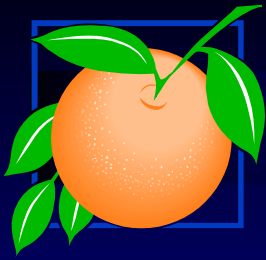
Impaired WBs – Updates (Con't.)

- **Lake Apopka (2835B)**
 - Two SADF permit applications under review.
- **Lake Carlton (2837B)**
 - Assessment Phase Complete 2018.
 - Feasibility field work completed.
 - Draft report due Winter 2019.
- **Marshall Lake (2854A)**
 - 270 Acre watershed.
 - OC comprises 11% of watershed area.
 - On west side of watershed, residential use.



Southeast Corner of the UORB: Lakes Pearl, Lily, and Johns

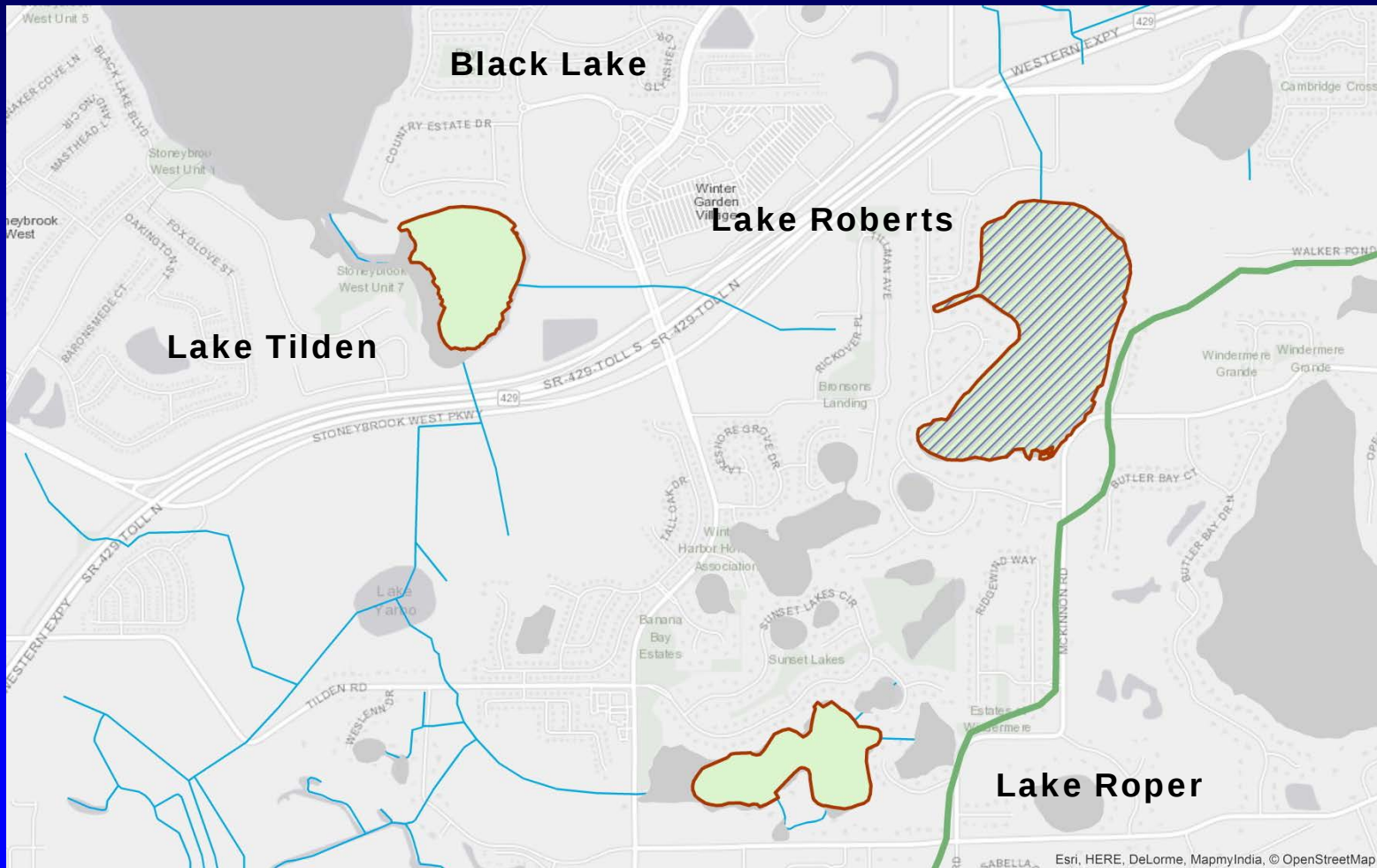


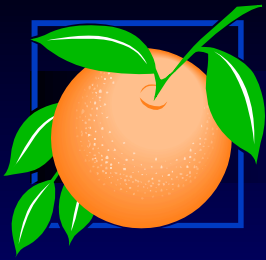


Impaired WBs - Updates

- **Lake Pearl (2872B)**
 - Assessment Phase.
 - Field work completed, developing budgets.
 - Report due Winter 2019.
- **Lake Lily (2872C)**
 - Enter project cycle FY23?
- **Johns Lake (2873C)**
 - Phase I: Flows, WQM, and sediments in 2019.
 - Phase II: Flows, WQM, basin delineation, BMP evaluation. Report Spring 2022.

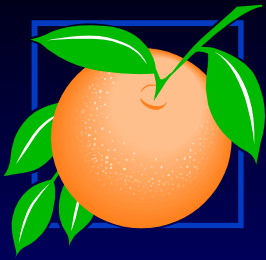
Southeast End of UORB: Roberts, Tilden, and Roper



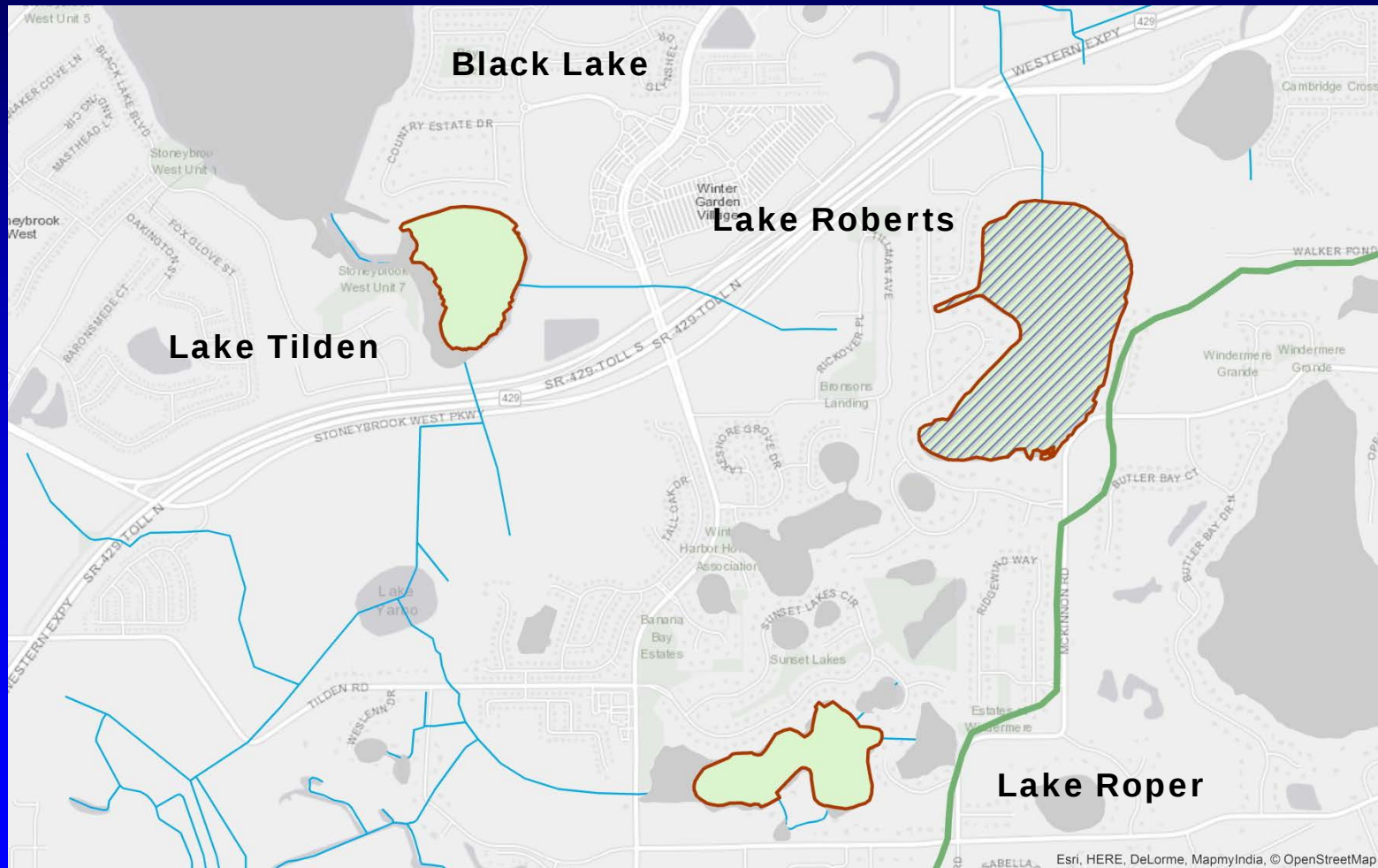


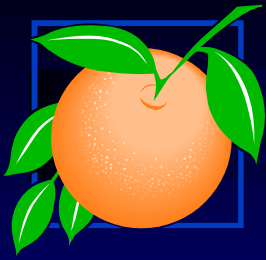
Impaired WBs – Updates (Con't.)

- **Lake Roberts (2872A)**
 - Assessment completed. Feasibility completed.
 - Private lake has an MSBU. In-lake alum?
- **Lake Tilden (2875C)**
 - Assessment: completed.
 - Feasibility study: off-line UFF, in-lake alum.
- **Lake Roper (2875C)**
 - Feasibility study underway.
 - Report Spring 2022.



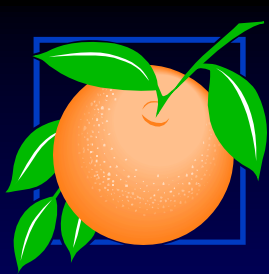
Southeast End of UORB: Roberts, Tilden, and Roper



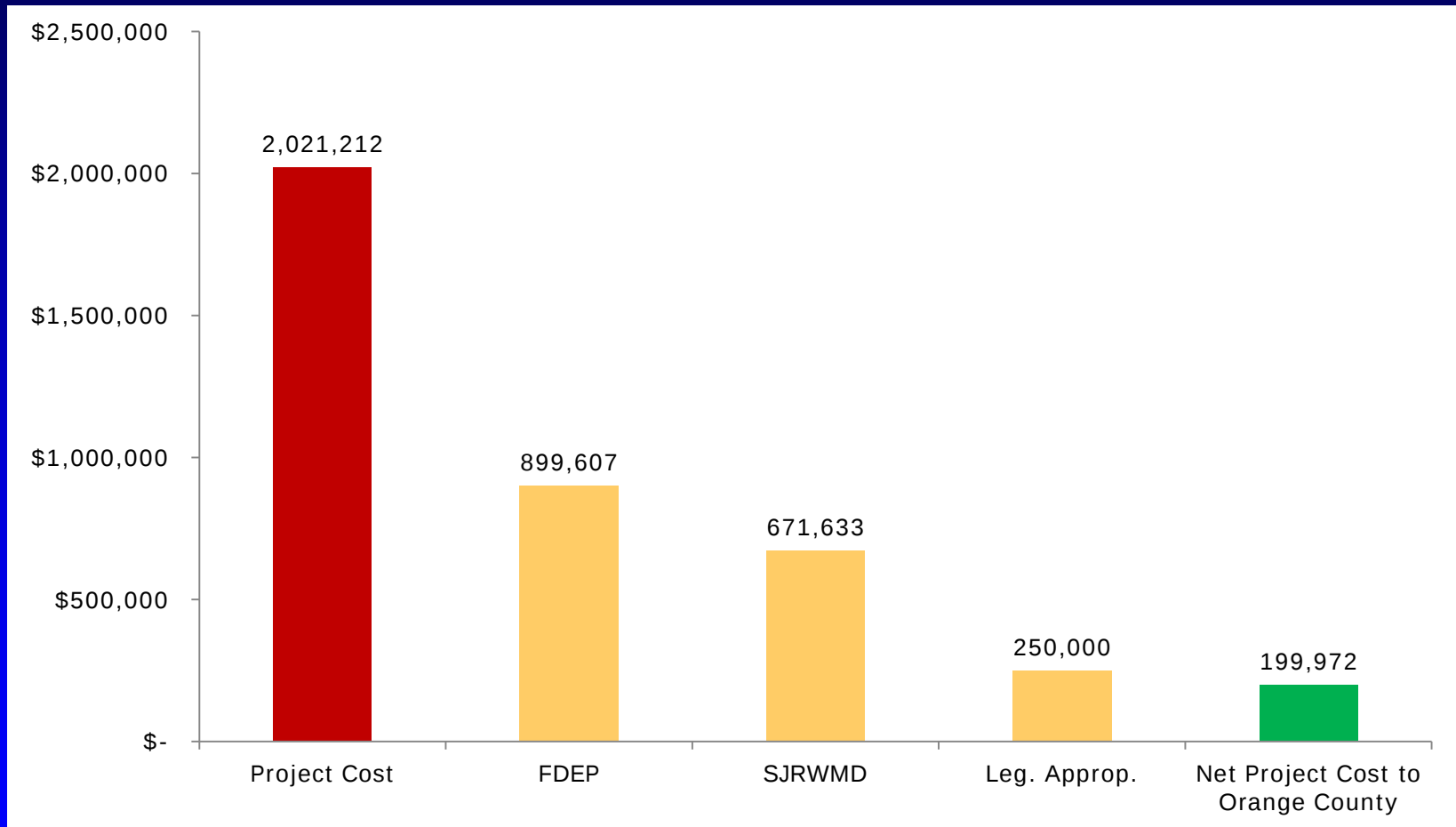


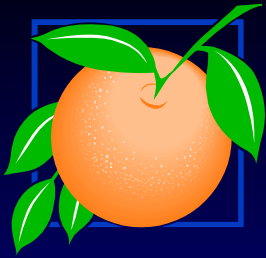
To Date ...

- **6 Assessments**
 - Identified sources/sinks of nutrient pollutants over a combined 9,328 ac of watershed.
- **5 BMP Constructabilities**
 - Evaluated the constructability of BMPS at Carlton, Roberts, Roper, & Tilden.
- **4 Designs**
 - These four lakes should enter the design phase in FY20.
- **Construction (TBD)**
 - BMP construction in FY21 or FY22?



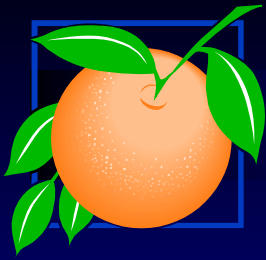
Importance of State Funding During Local Water Quality Improvement





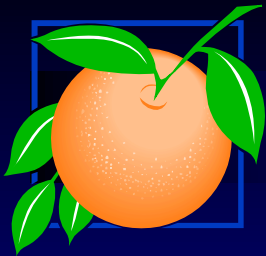
Lake Lawne SIF





Down the Road ...

- **New County Mayor = New Priorities**
 - **Transportation**
 - **Affordable Housing**
 - **Minimum Wage**
 - **Sustainability**
 - **Other**



Thank You

