

Doing Things!

Public Works Department
Environmental Management Division
July 18, 2017



Overview

- Background
- Watershed ManagementPlan Implementation
 - Indicators of success
- Overview of dredging project
- Project cost and funding
- Path forward







Background

- Significant water quality decline beginning in the 1980's
- County Resolution 89-13 initiated development of longterm management program
- 1991 Diagnostic Feasibility
 Study completed
- 2004 BCC adopted the completed Watershed Management Plan (Plan)
- 2007 State accepts Plan in lieu of Total Maximum Daily Load





Watershed Management Plan

- Components:
- Six structural
- Five management
- Two legal
- Two public education
- One policy component
- One compliance and enforcement component

- Regional stormwater treatment facilities
- Bypass canal treatment and diversion
- Shoreline restoration
- Restore priority wetlands
- Install gauging station on outfall structure
- Dredge organic sediments

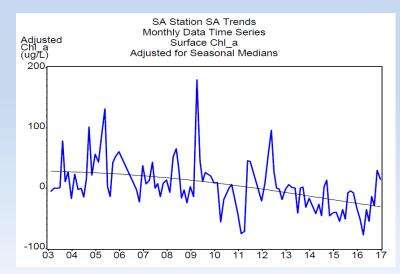


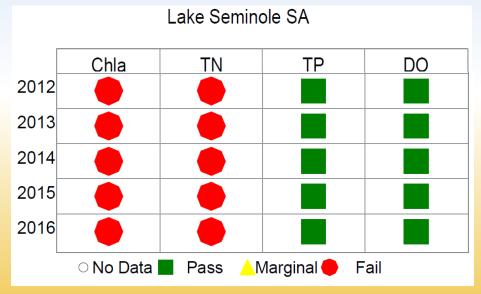
 #1 ranked project for water quality



Water Quality Indicators

- Water quality is improving!
 - Nitrogen and phosphorus levels are decreasing
 - Chlorophyll is decreasing
 - Water clarity is improving
- Still too many nutrients in the system to achieve goals







Dredging Project

- Number one recommended project
- Removal of ~900,000 CY of organic sediments
- Results in removal of
 - 416 tons of nitrogen
 - 77 tons of phosphorus
- Goal: reduce internal nutrient loads





Dredging Project Approach



DMMA: Dredge Material Management Area





Project Cost and Funding

- Phase I
 - Permit amendments and DMMA design
 - \$668,670
- Phase II
 - Dredging, dewatering, and disposal
 - Base bid: \$15,244,650
 - Contingency: \$2,749,900
 - Total: \$18,663,220

- Penny for Pinellas
 - \$8,000,000
- SWFWMD
 - \$8,000,000
- RESTORE Act
 - \$5,200,000
- Other grant/funding opportunities being explored



LAKE SEMINOLE SEDIMENT REMOVAL

Allocation \$8,000,000

Removal of organic sediments in Lake Seminole that are causing water quality, habitat and recreational problems in the lake and Boca Ciega Bay.



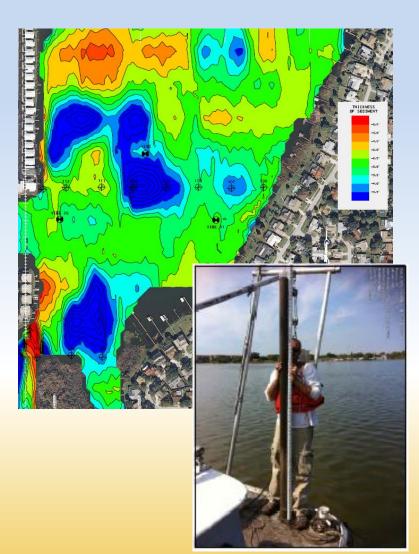
Return on Investment

- Achieve project goals at lower cost
 - Flexibility in process resulted in bid \$8.8M under estimate
- Multiple benefits
 - Environmental (water quality, fisheries, beneficial habitats)
 - Recreation (boating, public health)
 - Area prepared for future opportunities:
 - Expanded youth sports in the unincorporated Seminole area
 - Reduces traffic and road impacts on 98th St.
 - Dredge project related work saves ~\$1M on future site development



Path Forward

- Notice to proceed: August 31, 2017
- Permit modifications complete: July 31, 2018
 - FDEP and USACE
- Commence dredging and site work: August 31, 2018
- Project completion:December 31, 2023



Questions?