Restoration Strategies

A-1 Flow Equalization Basin (FEB) Initial Operations Update

Long-Term Plan Communications Meeting
March 4, 2016

Tracey Piccone, P.E.
Chief Engineer, South Florida Water Management District
A-1 FEB Project Purpose

- Attenuate peak stormwater runoff flows, temporarily store stormwater runoff and improve delivery rates to STA-2 & STA-3/4 for enhanced operation and phosphorus removal
- Expand water storage south of Lake Okeechobee
- Additional operational flexibility related to flood protection and water supply operations
- Help maintain minimum water levels and reduce frequency of dryout within STA-2 and STA-3/4
- Maintain existing levels of flood protection  
  – Not intended to increase level of flood protection
• 15,000 acres x 4 feet maximum depth = 60,000 acre-feet of storage

• Stages will fluctuate between approximately 8.5 and 12.5 feet NAVD88 (9.9 and 13.9 feet NGVD29 )
A-1 FEB Structure Map

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

 Restoration Strategies for clean water for the Everglades
A-1 FEB Initial Operating Stages

Depth (feet)

Elevation (feet NAVD88)


SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Linkage to Restoration Strategies Science Plan

- Study: Development of Operational Guidance for FEB and STA Regional Operational Plans
- Purpose is to develop tools and methodologies to be used to provide operational guidance for FEBs and STAs
  - Optimal weekly target flow rates and estimated gate openings

A-1 FEB Inflow Spillway G-720
Rubicon™ Solar-Powered Discharge Structures
Questions?