Northern Everglades Program Planning and Amendments to Chapter 40E-61 Florida Administrative Code

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South Florida Water Management District
November 17, 2020



Agenda

- ➤ Northern Everglades Program Planning Process
- ➤ Roles and Responsibilities
- >SFWMD Watershed Protection Plans
- ➤ Chapter 40E-61, Works of the District Rules
- ➤ Introduction to DBHYDRO Insights (separate presentation)

Northern Everglades Planning Process

Total Maximum Daily Loads sfwmd.gov

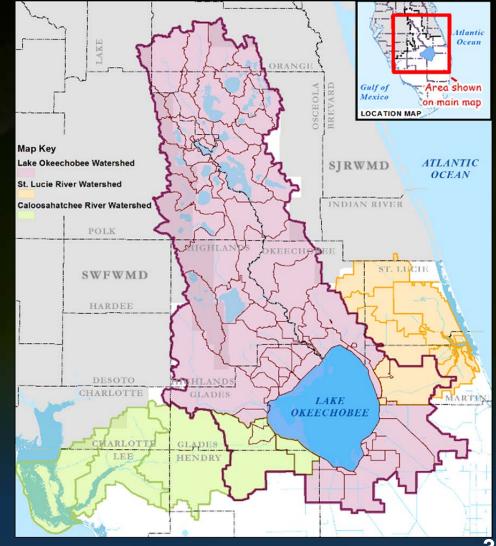
Basin Management Action Plans



Projects & Programs

FDEP SFWMD

FDACS Local Entities



FLORIDA WATER MANAGEMENT

Local



- FDEP establishes TMDLs, BMAPs, alternative technologies, urban and non-ag sources pollutants programs, ERP, alternative technologies
 - FDACS agricultural BMPs, technology projects, BMP research.
- SFWMD hydrologic improvements, storage and treatment projects, alternative technologies, 40E-61, **Environmental Resource Permits (ERP)**
- Local entities ordinances, programs, projects



Watershed Protection Plans

Monitoring Network

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Source Control Programs

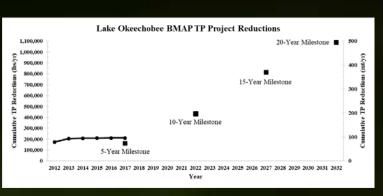
Notice of Environmental Resource
Or Surface Water Management Permit



Project Performance



BMAP Progress

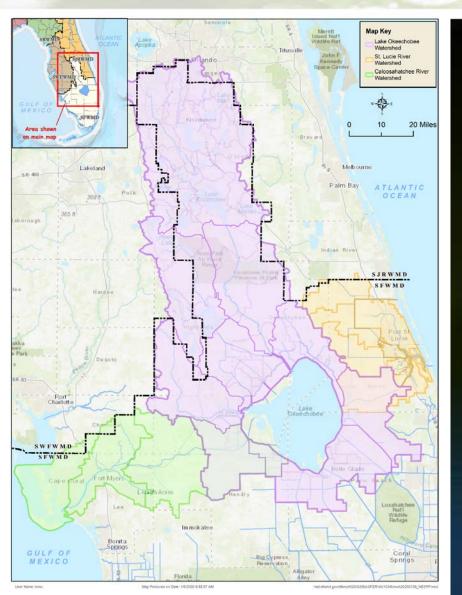


Watershed Protection Plans

BMAP Updates

Watershed Protection Plan Review Process

- ➤ Accelerating Actions
- ➤ Public Engagement
- >Transparency
- Focused Approach to Solve Problems



Accelerating Actions

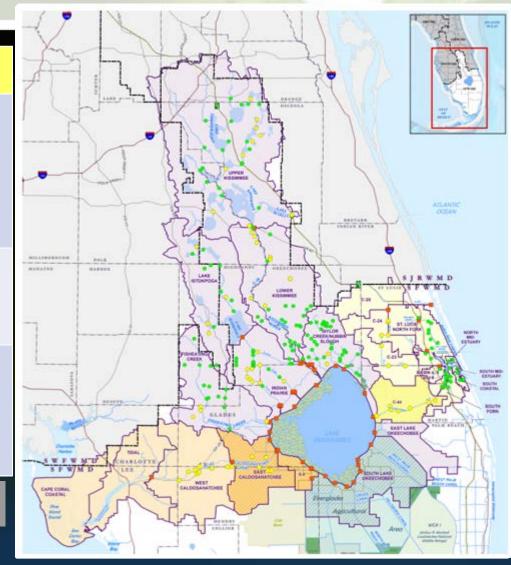
- ➤ Expanded Monitoring Efforts
 - Monitoring initiated February 2020
- ➤ Development of Projects Team
- ➤ Development of Coordinating Agency Legacy Phosphorus Team
- ➤ BMPs on District Leased Lands
- Watershed Protection Plan (WPP)
 Annual Reviews
- ➤ Selected focus areas



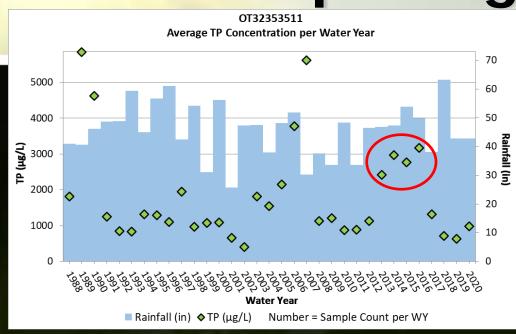
Expanded Monitoring Network

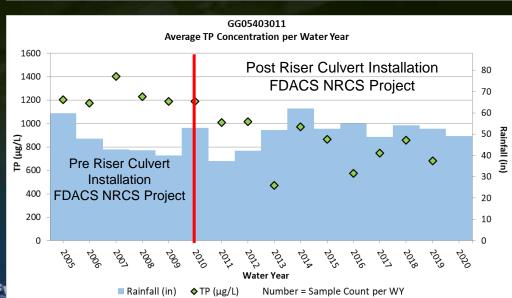
Elements	Existing Upstream	Expanded Upstream
Number of Upstream Sites	LOW- 113 SLRW- 31 CRW- No SFWMD sites; Local Entities sample coastal & tidal basins	LOW- 37 SLRW- 15 CRW- 15
Collection Method & Frequency	LOW- Monthly Grabs SLRW- Biweekly Grabs CRW- Not applicable	All- Biweekly Grabs
Monitored Parameters	LOW- TP (all sites), TN (40 sites) SLRW- TP, OPO4, TN, NH4, Nox, Conductivity CRW- Not applicable	All- TP, OPO4 TN, NH4, NOx, pH, Temperature, Dissolved Oxygen, Conductivity

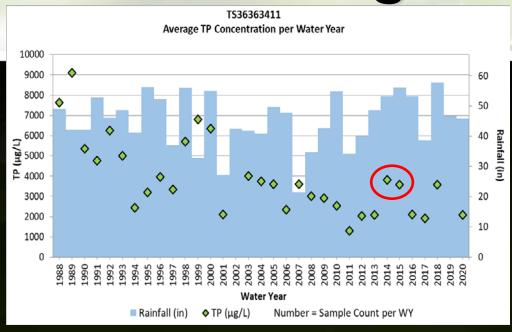
211 upstream monitored sites across over 5 million acres

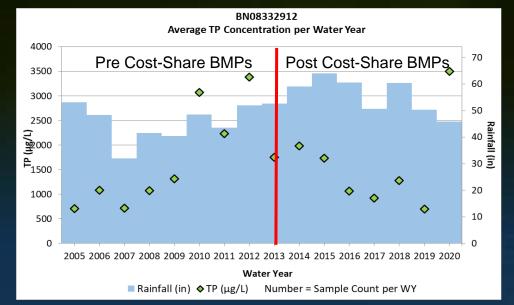


SFWMD Reporting Actions and Progress

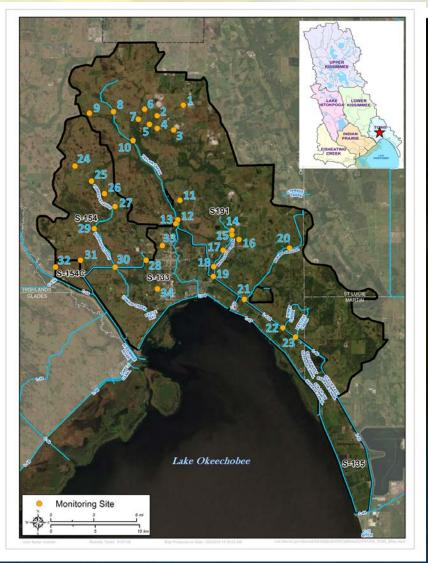








Upstream Monitoring Hydrologic Evaluations



- ➤ Evaluation of the approximate drainage area represented by the 34 upstream monitoring sites in the Taylor Creek/Nubbin Slough Subwatershed.
- ➤ Estimated completion June 2022.
- > Benefits
 - to identify areas represented by the water quality data.
 - to groundtruth WAM model delineation to determine if the other sites can be quickly delineated using that model

Monitoring of Projects

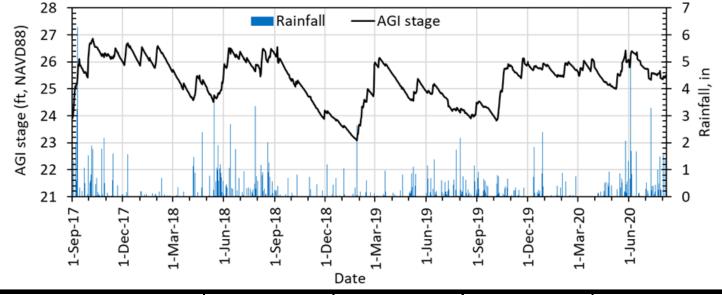
C23/24 Section C Interim Storage Project – Above Ground Impoundment (AGI)

- > Interim DWM water farm project on 297 acres reservoir constructed on public land.
- > Pump and store excess surface water from the C-23 Canal during the wet season.
- Estimated average annual storage of 2,950 acre-feet.



AGI stage and rainfall at Section C



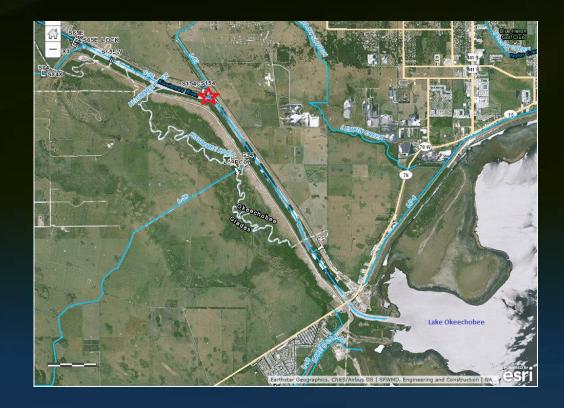


Variable	WY2018	WY2019	WY2020	Average
Storage (ac-ft)	2,902	3,308	2,647	2,953
Rainfall (inch)	45.7	56.1	48.3	50

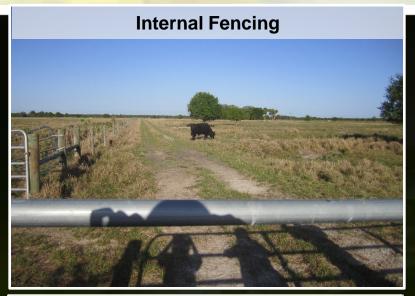
Special Teams

- ➤ Coordinating Agency Legacy P Team
 - Improve knowledge
 - Develop potential solutions
- Northern Everglades Projects Team
 - SFWMD subject matter experts
 - Evaluate and review best projects

➤ Results – SFWMD applied for FDEP grants for 9 new project grants

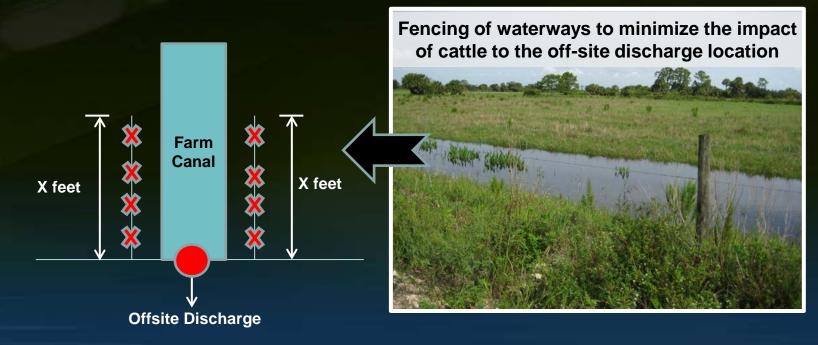


BMPs on Leased Lands





- >FDACS BMPs for leased lands
- District requires implementation of all applicable BMPs and includes Land Management Requirements.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Annual Review of Watershed Protection Plans

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

DRAFT

2021 South Florida Environmental Report

Chapter 8A: Northern Everglades and Estuaries Protection Program – Annual Progress Report

Chapter 8B: Lake Okeechobee Watershed Protection Plan Annual Progress Report

Appendix 88-1: Water Year 2020 Lake Okeechobee Watershed Upstream Monitoring

Chapter 8C: St. Lucie River Watershed Protection Plan Annual Progress Report

Appendix 8C-1: Water Year 2020 St. Lucie River Watershed Upstream Monitoring

Chapter 8D: Caloosahatchee River Watershed Protection Plan Annual Progress Report

Appendix 8D-1: Water Year 2020 Caloosahatchee River Watershed Upstream Monitoring

https://apps.sfwmd.gov/sfwmd/SFER/2021_sfer_draft/sfer_toc_v1.pdf

Public Engagement

- Conducted Watershed Protection Planning Public Workshops
- Updated Protection Planning Website

https://www.sfwmd.gov/wpps

Developing a new tool to view Water Quality Data





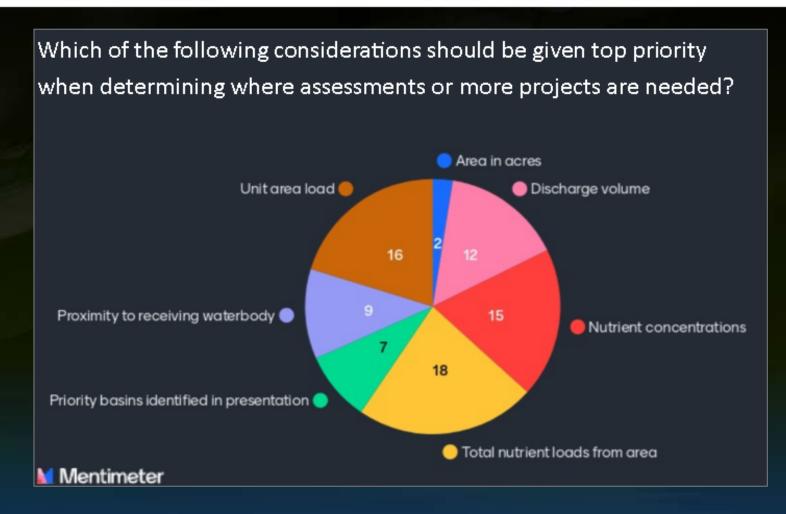
Public Workshops

Past WPP Workshops:

- ➤ Jun. 26 Kickoff and Overview
- ➤ Jul. 21 Lake Okeechobee Watershed
- ➤ Aug. 28 St. Lucie River Watershed
- ➤ Sep. 2 Caloosahatchee River Watershed

Upcoming WPP Workshop:

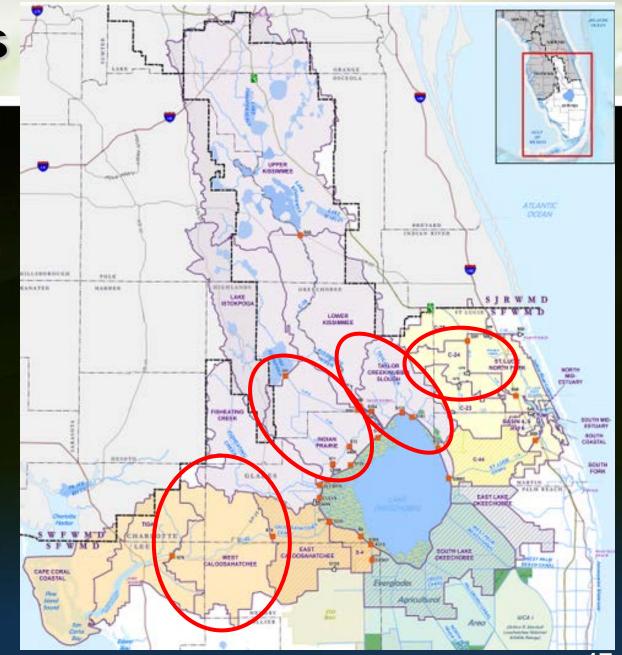
➤ Dec. 2 – Update with the Coordinating Agencies



https://www.sfwmd.gov/wpps

Selected Focus Areas

- ▶ Lake Okeechobee Watershed
 - Taylor Creek Nubbin Slough Subwatershed
 - S-191, S-154 and S-154C Basins
 - Indian Prairie Subwatershed
 - C-41A, C-40, C-41 and L-59W Basins
- ➤ St. Lucie River Watershed
 - C-24 and Ten Mile Creek Basins
- ➤ Caloosahatchee River Watershed
 - West Caloosahatchee Basin

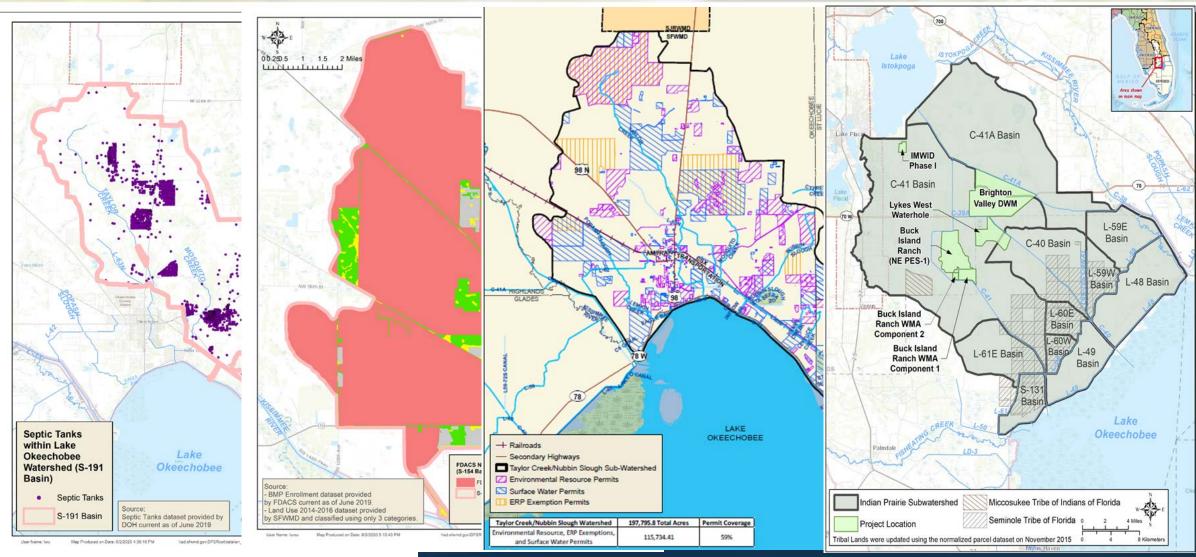


Focus Area Assessment Approach

- Account for existing programs and projects
- ➤ Define gaps
- ➤ Identify solutions

Table 8C-11. Project timeline for current SFWMD and CERP projects in the SLRW.															
Basin	Project Name	Project Status FY2020	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	
C-23	Allapattat, Flats Parcels A and B Natural Resources Conservation Service (NRCS) Wetland Reserve Program (WRP) Wetland Restoration	Construction													
C-23	Bluefield Grove Water Farm	Design													
C-23	Bull Hammock Ranch Water Management Area (VMA) *	O&M													
C-23	Spur Land and Cattle Water Farm ^b	M&O													
C-24	Adams-Russakis Ranch WMA	Construction													
C-24	C-23/24 Interim Storage Section C Water Farm	O&M													
C-24	C-23/24 Interim Storage Section B	Planned													
C-44	C44 Reservoir and STA	Construction													
C-44	Caulkins Water Farm Expansion	O&M													
North Fork	North Fork Floodplain Restoration	Planned													
TMC	TMC Water Preserve Area	O&M													
C-23 & C-24	C-23/C-24 Reservoirs and STA	Design													
C-23 & C-44	C-23/C-44 Interconnect	Design													
C-23, C-24, C-44, & South Fork	Natural Water Storage and Treatment Areas	Planned													
a. Contract expires on March 26, 2025. b. Contract expires on September 26, 2021.															
= Planned = Design = Construction = O&M															

Account for Existing Programs and Projects



Environmental Resource Permit (ERP)

- Regulates alteration of surface water flows
- Must not cause or contribute to water quality problems
- Discharge to Outstanding Florida Waters and impaired waters must demonstrate additional 50% water quality treatment volume and site-specific pollutant loading analysis
- ➤ Water Bill requires revisions to increase nutrient removal

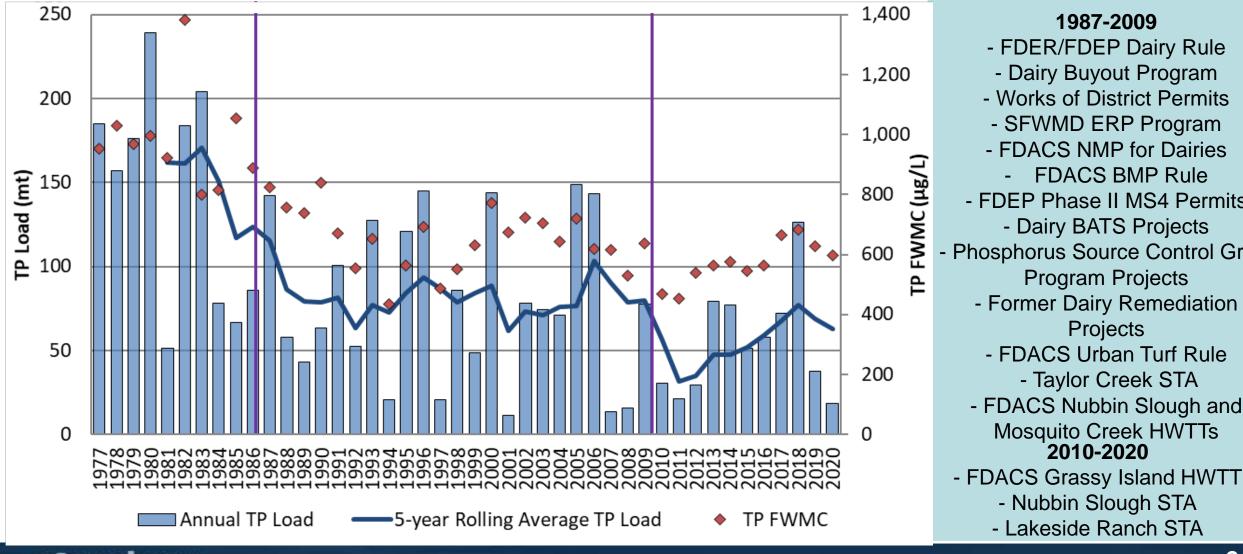


Surface Water Reservoir



Stormwater detention pond

TCNS S-191 Basin Timeline

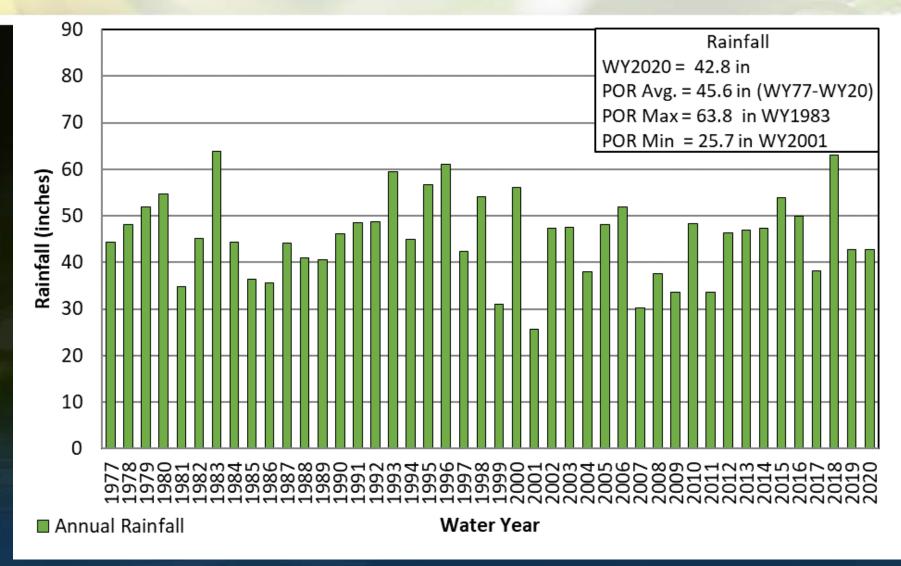


1987-2009

- FDER/FDEP Dairy Rule
- Dairy Buyout Program
- Works of District Permits
- SFWMD ERP Program
- FDACS NMP for Dairies
 - FDACS BMP Rule
- FDEP Phase II MS4 Permits
 - Dairy BATS Projects
- **Phosphorus Source Control Grant Program Projects**
 - Former Dairy Remediation
 - FDACS Urban Turf Rule
 - Taylor Creek STA
 - FDACS Nubbin Slough and Mosquito Creek HWTTs

 - Nubbin Slough STA
 - Lakeside Ranch STA

TCNS S-191 Basin Rainfall



Continued Engagement and Adaptive Management

- ➤ Coordinating Agencies' Holistic Approach
- ➤ Report findings in a public workshop for accountability
- ➤Incorporate recommendations into WPPs for BMAP updates



Another Consideration

- ➤ Notify Coordinating Agencies of the need to revise the outdated Interagency Agreement
 - Last revised 2017
 - Does not include the river watersheds



Chapter 40E-61 Program



- ➤ One program under NEEPP
- ➤ NEEPP directs SFWMD to amend 40E-61
- ➤ House Bill 5003 clarifies direction
- Cost effectiveness must be considered 120.54 (1)(d) F.S.

Individual Monitoring Requirements

➤ Objective: To provide for a monitoring program for those not implementing BMPs. The program will require landowners to:

- Submit a Water Quality Monitoring Plan (WQMP) which must be approved by the SFWMD
- > Report monitoring data
- Take action if the water quality criteria for the parameters address by the BMAP are not attained, by implementing the appropriate BMP program under FDACS or FDEP

Approval of Water Quality Monitoring Plan

- Non-point source discharger within the Northern Everglades must obtain approval of their Water Quality Monitoring Plan (WQMP)
- SFWMD will review and approve the plan by way of a letter



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Parameter Gr Nutrients (Tot pH, specific or temperature

TABLE 6.2 Sampling

Equipment Type	Con
Surface Water a	nd Storm
1. Nansen, Kemmerer, VanDorn	1. Sta Ste
2. American Sigma/ISCO automatic samplers	2. N/A tub

6.4 Sampling Procedures - Aq
All sampling procedures and guideline

Samples are collected following 40 CFI defined later in this section. Collect documented. Unusual conditions will

Based on the sampling capabilities states is not applicable.



3301 Gun Club Road, West Palm Beach, Florida 33406 * (561) 686-8800 * 1-800-432-2045 * www.sfwmd.gov

Requirements of WQMP

- ➤ Description of the property drainage features
- Proposed methodology to determine attainment of water quality criteria
- Proposed monitoring locations
- ➤ Sample methods and frequency
- ➤ Must be renewed every 5 years
- Must be modified if significant changes
- ➤ New owners must submit a new plan

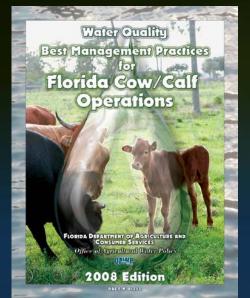


When Water Quality Standards are Not Met

If after 3 years monitoring water quality criteria are not met

- ➤ Non-point source discharger must implement BMPs under FDACS or FDEP programs
- ➤Once BMPs are implemented Water Quality monitoring will no longer be required







Revised Rulemaking Timeline

Process	Completed tasks and Current Schedule					
Governing Board approval of Notice of Rule Development	Completed - October 2019					
Round 1 - Public Workshops in 5 regions:	Concepts only:					
Stuart, Kissimmee, Ft. Myers, Okeechobee, West Palm	Completed - November 2019					
Legislative Change	March 2020					
Update to Governing Board	Completed - March 2020					
Publish Draft Rule Text on website	Completed - April 2020					
Dound 2 Zoom Workshops	With Draft Rule Text:					
Round 2 - Zoom Workshops	Completed May 2020 - June 2020					
Update to Governing Board	Completed July 2020					
Revise Draft Rule Text	June - October 2020					
Dound 2 Zoom Workshop	With revised Draft Rule Text					
Round 3 - Zoom Workshop	November 2020					
Revise Draft Rule Text	December 2020					
Governing Board approval Publish Notice of Proposed Rule File Proposed Rule with JAPC	February 2021					

Next Steps

- ➤ Public input comments requested by December 22
- ➤ Adjust draft rule text as needed

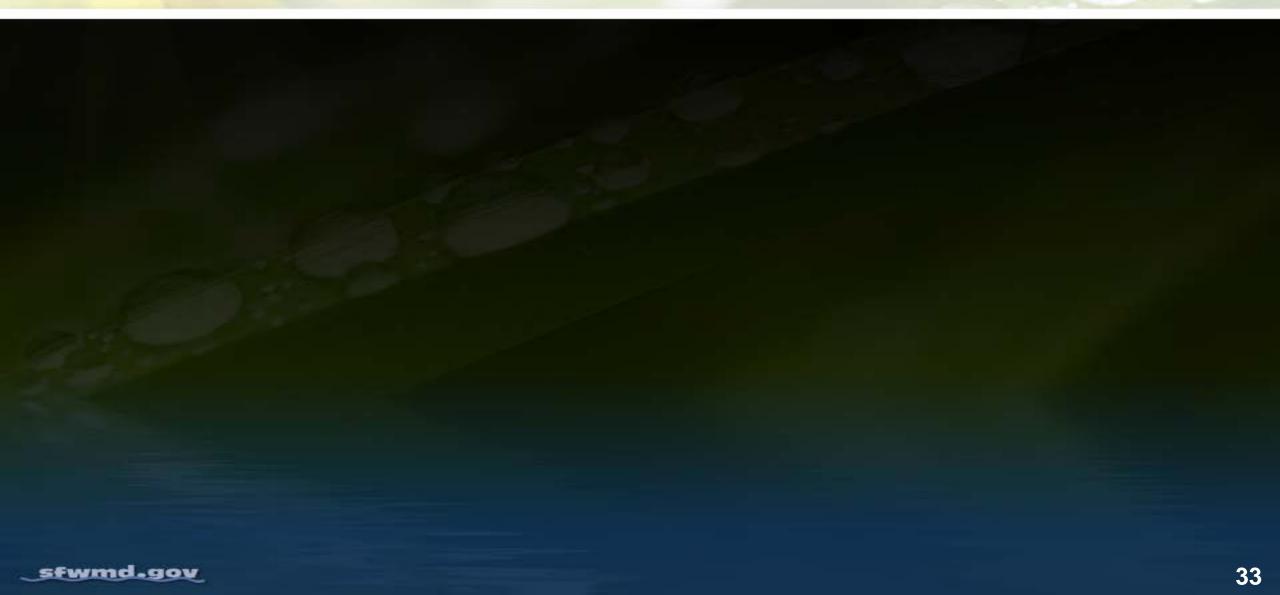


SFWMD Rulemaking Web Board

- ► Interactive Web Board
 - Most recent Draft Rule Text
 - Round 1 and 2 Workshop videos
 - Status of rule amendments
 - Link to request to be added to stakeholder list
 - Link to leave a comment
- >Link
 - https://www.sfwmd.gov/doingbusiness-with-us/rules



DBhydro Insights Presentation



Question & Answer Period

Have a question?

➤ Please use the Q & A feature using zoom to type in your question so that we respond.



Public Comment

Want to comment?

- > Each speaker will have 3 minutes complete their comment
- Please remember to first state your name and who you are representing for the record.
- > Zoom audio/microphone
 - If you're participating via zoom use the Raise Hand feature
- > Phone
 - If you're participating via you phone –
 - *9 Raises Hand
 - *6 Mutes/Unmutes your phone



