



South Florida Water Management District

GOVERNING BOARD MONTHLY MEETING AGENDA

October 12, 2023

9:00 AM

District Headquarters - B-1 Auditorium

3301 Gun Club Road

West Palm Beach, FL 33406

FINAL

1. Call to Order - Chauncey Goss, Chairman, Governing Board
2. Pledge of Allegiance
3. Employee Recognitions
 - October Employee of the Month: Jimmy Councilman, Scientist 4
 - October Team of the Month: S-356 Boat Ramp Team
 - 25-Year Service Award: Juanita Bozeman, Records Administration Officer
 - 30-Year Service Award: James Betzhold, Chief Information Security Officer
 - 30-Year Service Award: John Goodson, Lead Scientist
4. Agenda Revisions
5. Agenda Item Abstentions by Board Members
6. Big Cypress Basin Board Report - Charlette Roman, Chair
7. Audit & Finance Committee Report - Jay Steinle, Chairman
8. Consider Approval of the Minutes for the September 14, 2023 Monthly Meeting and Tentative Ad Valorem Millage Rates, Non Ad Valorem Tax Rolls, and Tentative Budget Public Hearing, and the September 26, 2023 Fiscal Year 2023-2024 Final Millage Rates and Final Budget Public Hearing

9. Consider Approval of the 2024 Governing Board and Committee Meeting Dates
10. Executive Director's Report - Drew Bartlett
11. General Public Comment
12. Board Comment
13. Move Consent Agenda Items to Discussion Agenda
14. Public Comment on Consent Agenda Items
15. Board Vote on Consent Agenda

Consent Agenda

16. Land Acquisition, Tract KC100-036, Lake Hicpochee Hydrologic Enhancement Project, Glades County (Staff contact, Ray Palmer)

Agenda Item Background:

The District is proposing to acquire 3.0 acres for the Lake Hicpochee Hydrologic Enhancement Project in Glades County. The proposed acquisition includes an access road that divides the two portions of the Project's approximately 2,510-acre District Tract KC100-018, which is adjacent to the Project's existing approximately 700-acre Lake Hicpochee Flow Equalization Basin. An expansion of the Flow Equalization Basin will be constructed on approximately 2,350 acres of the Tract KC100-018 lands with a new G-795 Pump Station being installed to fill the expansion. An inflow canal, that will supply water from the C-43 Canal to the G-795 Pump Station, will be constructed within the remaining approximately 165 acres of the Tract KC100-018 lands and within the proposed 3.0-acre acquisition to connect to the G-795 Pump Station. The purchase price is \$22,500.

Recommended Action:

A. Resolution No. 2023 - 1001 Acquire land interests containing 3.0 acres, more or less, located in the Lake Hicpochee Hydrologic Enhancement Project in Glades County, in the amount of \$22,500, plus associated costs, for which dedicated funds (Land Acquisition Trust Fund) are budgeted.

B. Resolution No. 2023 - 1002 Advise the Florida Department of Environmental Protection of the proposed acquisition of land interests containing 3.0 acres, more or less, for the Lake Hicpochee Hydrologic Enhancement Project in Glades County, and requesting the release of funds in the amount of \$22,500 and associated costs from the Land Acquisition Trust Fund for acquisition of such land interests.

[Memorandum Exhibit "A"](#)
[Resolution No. 2023-1001](#)
[Resolution Exhibit "A"](#)
[Resolution No. 2023-1002](#)

17. Release of Reservations (Staff contact, Ray Palmer)

Agenda Item Background:

The District has certain reserved rights to construct canal and road right of ways. Applications requesting release of these reservations are received as they constitute a defect on title which must be resolved prior to a property sale, especially when financing is involved. Applications are reviewed to determine if there is a present or future need for the reservations. If it has been determined there is no present or future need, staff recommend that the reservations are released for payment of a value equal to three percent of the appraised value of the land on the Property Appraiser's website in the County where the property is located.

Staff evaluated the properties' size and location for future resiliency purposes related to water storage. This storage opportunity was further evaluated with respect to the specific development being proposed on the property. The subject properties will each have 60% greenspace set aside as required by county rules. Additionally, to protect that greenspace, a conservation easement will be recorded in favor of Palm Beach County and the District will be named as a beneficiary. This greenspace set aside provides for pervious infiltration and storage in and on the landscape and inherently provides for more resilient water management in the area. The remainder of the property would be permitted pursuant to Environmental Resource Permit stormwater management requirements.

Therefore, given the nature of the development and requisite conservation easement, District staff recommends release of the reservations.

Palm Beach County

- Release District canal and road reservations for Barbara M. Logan, Trustee of the Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004 (File No. 18932) for 39.24+/- acres; subject to release value payment in the amount of \$249,702.57
- Release District canal and road reservations for Patricia A. Mazzone and Thomas A. Smith, Co-Trustees of the William A. Mazzone Revocable Trust dated June 4, 1992 (File No. 18935) for 92.66+/- acres; subject to release value payment in the amount of \$645,956.04

Recommended Action:

Resolution No. 2023 - 1003 Release certain canal and road reservations following execution of an agreement designating the District as a beneficiary of a recorded conservation easement pertaining to the property.

[Memorandum Exhibit A](#)

[Resolution No. 2023-1003](#)

[Resolution Exhibit A](#)

[Maps](#)

[Erickson Preserve Areas Map](#)

18. Vital Records Control (VRC) Contract Amendment (Staff contact, Sean Cooley)

Agenda Item Background:

The South Florida Water Management District is required by Section 119.021, Florida Statutes to maintain and store records of agency business based on a records retention schedule. Most of the District's records are stored at a secure, offsite facility, and staff requests retrieval of records to fulfill public records requests or for agency business. The District uses VRC Companies, LLC dba Vital Records Control (VRC) for records storage, retrieval and disposal services. There are currently approximately 24,000 boxes in storage.

The contract was executed on April 23, 2019 with VRC on in the amount of \$150,000 for three years and one 2-year renewal option. The contract was issued as a piggyback on the State of Florida's Agreement for Document Management Services Contract No. 78131804-17-01 that expires on August 21, 2026. Staff is seeking authorization to amend the contract with VRC to increase the contract amount by \$250,000 and extend the contract by 850 days using the State of Florida's Agreement for Document Management Services Contract No. 78131804-17-01, for a revised contract amount of \$495,978.38.

Recommended Action:

Resolution No. 2023-1004 Authorize an amendment to the contract with VRC Companies, LLC dba Vital Records Control for records storage, retrieval and disposal services, for the purpose of increasing the contract amount by \$250,000 and extending the contract by 850 days using the State of Florida's Agreement for Document Management Services Contract No. 78131804-17-01, for a revised contract amount of \$495,978.38, for which \$40,000 of Ad Valorem funds is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004006-A04)

[Resolution No. 2023 - 1004](#)

19. Fiscal Year 2024 Five-Year Water Resource Development Work Program (Staff contact, Lawrence Glenn)

Agenda Item Background:

The Five-Year Water Resource Development Work Program (Work Program) is an update report that includes a draft evaluation of the Work Program's consistency with the District's regional water supply plans and the adequacy of the proposed expenditures pursuant to Section 373.536, Florida Statutes. The Fiscal Year 2024 Work Program includes the period from October 1, 2023 through September 30, 2028. The Work Program contains, for example, projects involving water conservation, resource evaluation, and regional water resource development. Within 30 days of budget adoption, the water management districts are required to submit the Work Program to several entities, including the Governor, the President of the Senate, the Speaker of the House of Representatives, and the Florida Department of Environmental Protection. This item also authorizes District staff to address and incorporate appropriate revisions as a result of agency and/or public comment to the Work Program prior to inclusion into the final Fiscal Year 2024 South Florida Environmental Report.

Recommended Action:

Resolution No. 2023 - 1005 Authorize the transmittal of the draft Fiscal Year 2024 Five-Year Water Resource Development Work Program pursuant to Section 373.536(6)(a)4., Florida Statutes.

[Resolution No. 2023 - 1005](#)

[Draft Fiscal Year 2024 Five-Year Water Resource Development Work Program](#)

20. 2023 Priority Water Body List and Schedule (Staff contact, Lawrence Glenn)

Agenda Item Background:

Each year, the water management districts are statutorily required to submit a list and schedule to the Florida Department of Environmental Protection prioritizing water bodies for developing minimum flows and minimum water levels (MFLs) and water reservations. MFLs define the point at which further withdrawals would cause significant harm to the water resources or the ecology of the area. Water reservations protect the water needed for fish and wildlife or public health and safety from being allocated to consumptive uses. The District also uses a third water resource protection tool: restricted allocation areas (RAAs), which are defined geographic areas where consumptive use allocations from specific water resources are limited. The proposed 2023 Priority Water Body List and Schedule includes the Indian River Lagoon - South (IRL-S) CERP project natural lands project component and the CERP Lake Okeechobee Watershed Restoration Project (LOWRP) as well as continued development of the C 43 Reservoir water control plan (Draft Project Operations Manual) in support of the reservoir's prospective water reservation.

Recommended Action:

Resolution No. 2023 - 1006 Authorize submission of the proposed 2023 Priority Water Body List and Schedule for Minimum Flows and Levels and Water Reservations to the Florida Department of Environmental Protection for review and approval pursuant to Section 373.042(3), Florida Statutes.

[Resolution No. 2023 - 1006](#)

[Attachment A](#)

21. C-51 Reservoir Phase 1 Operations and Maintenance Amended Agreement, Palm Beach County (Staff contact, Lucine Dadrian)

Agenda Item Background:

As part of the Alternative Water Supply program, in 2017 the District entered into an agreement with Palm Beach Aggregates, LLC. (PBA) to operate and maintain the C-51 Reservoir Phase 1, which is approximately 14,000 acre-feet of water storage and will be hydraulically connected to the South Florida Water Management District L-8 Flow Equalization Basin, via structure NR-51C. The 2017 agreement is amended to add operation and maintenance of structure NR-51C.

The C-51 Phase 1 Reservoir Project will consist of a reservoir and conveyance structures to provide water supply and water management benefits to participating water supply utilities and will also provide environmental benefits by reducing freshwater discharges to tide.

The C-51 Phase 1 Reservoir Project is dependent upon the South Florida Water

Management District's operation of its regional system and needs to be operated and maintained in a synchronized manner with the L-8 Flow Equalization Basin.

To fully accomplish the goals of the C-51 Reservoir Phase 1 Project, the District will be conveyed approximately 4.246 acres contained within the footprint of the C-51 Reservoir Phase 1 Project that are adjacent to other District lands within the Project.

Improvements to certain of the District's facilities are necessary to fully operate the Phase 1 Project; the Phase 1 Project may be operated on an interim basis and PBA will pay for the necessary improvements to the District's facilities prior to commencement of full operations.

The improvements to the District's facilities includes a permanent structure for flow through the L-39 located between WCA 1 and WCA 2A immediately west of S-39.

The South Florida Water Management District will operate, maintain, repair, replace, and rehabilitate the Phase 1 Project and other South Florida Water Management District facilities that benefit the Phase 1 Project, provided that the owner of the Project fully covers the District's costs in providing such services.

Recommended Action:

Resolution No. 2023 - 1007 Authorize entering into an amended Operation and Maintenance Agreement with Palm Beach Aggregates, LLC for Phase 1 of the C-51 Reservoir Project (Contract No. 4600003623).

[Resolution No. 2023-1007](#)

[Location Map](#)

22. Amendment to Bridge Inspection Services (Staff contact, Lucine Dadrian)

Agenda Item Background:

As part of the District's Operations and Maintenance Capital Improvement Plan, the Bridge Inspection Services contract supports access to the District's infrastructure by providing bridge inspections to identify deficiencies, as well as load rating analyses, for District owned bridges that are not inspected through the Florida Department of Transportation (FDOT) inspection program. This program supports the continuing maintenance and operations of the District's structures by extending the useful life of our access bridges.

The Bridge Inspection Services contract was executed on September 24, 2019 with TranSystems Corporation Consultants in the amount of \$149,999 for 5 years. This contract was issued as a piggyback on FDOT's Contract #C9S64 for Bridge Inspection Continuing Services Contract. Amendment No. 1 was executed on August 3, 2022 for an additional \$100,000. The expenditures for each year have increased due to additional bridge inspections and load ratings to support operations and maintenance activities and design and construction projects. Staff is seeking authorization for another amendment to the existing Bridge Inspection Services contract to increase the amount by \$100,000.

Recommended Action:

Resolution No. 2023 - 1008 Authorize an amendment to the existing Bridge

Inspection Services contract to increase the amount by \$100,000 for TranSystems Corporation Consultants, of which Ad Valorem and dedicated funds are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004049)
[Resolution No. 2023 - 1008](#)

23. Okeechobee Field Station Expansion and Relocation Project (Staff contact, Lucine Dadrian)

Agenda Item Background:

As part of the Everglades Restoration Program, the Okeechobee Field Station Expansion and Relocation Project, is located in Okeechobee County. The facility will support restoration projects such as C-44 Reservoir and STA, C-23/24 North and South Reservoirs and STA, C-25 Reservoir and STA, LOCAR Reservoir, and ASR facilities as well as critical flood control works. The project also consists of the design and construction of a new facility that combines the Okeechobee Field Station, Okeechobee Service Center, Water Quality Lab, SCADA, alternate Emergency Operations Center, and offices for Florida Fish and Wildlife Conservation Commissions South Region Statewide Nuisance Alligator Program. The new facility will be relocated to a District-owned parcel in Okeechobee County. The existing field station has reached the end of its useful life and requires replacement with facilities that meet present code requirements and expanded facility needs. The existing Service Center is operated in a leased facility and inclusion of the Service Center will allow the services to be provided from a District owned facility.

The new facility will include office space, fleet, structure maintenance, canal maintenance, electrical and SCADA service bays, water quality lab, emergency generator, alternate Emergency Operations Center and back up control center, fueling facility, vehicle wash area, chemical storage, microwave tower and shelter, helipad, parking areas, and associated utilities. This facility will consolidate and centrally locate the works and services provided in support of the District's mission through the combined efforts of planning, operations and maintenance, community and government relations, land management, regulation and in-house construction.

The use of the design-build procurement method allows the District to work in collaboration with a Design-Builder from the conceptual phase through construction of the new facility. The original design-build contract with PCL Construction Services, Inc. was approved at the March 2020 Governing Board meeting. The design progressed to the intermediate level, and contract negotiations for the stipulated price were not successful. The contract was terminated for convenience, and the District has negotiated with the second bidder from the request for proposal process, State Contracting and Engineering Corporation, to provide design services for 90% and 100% deliverables.

Recommended Action:

Resolution No. 2023 - 1009 Authorize entering into a 270-day contract for Phase I of the design-build contract for the Okeechobee Field Station Relocation Project, subject to successful negotiations with State Contracting and Engineering Corporation, for the 90% facility design, 100% design of utilities, roadways, and microwave tower packages, and the stipulated price proposal in an amount not to exceed \$3,925,544, for which \$3,925,544 in dedicated funds (Land Acquisition

Trust Fund) is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 460004857)
[Resolution No. 2023-1009](#)
[Location Map](#)

24. Okeechobee Field Station Grassy Island Communications Tower Project (Staff contact, Lucine Dadrian)

Agenda Item Background:

As part of the Everglades Restoration Program, the Grassy Island Communications Tower project, located in Okeechobee County, supports the future Okeechobee Field Station expansion and relocation project. The project includes construction of a 280-ft self-supporting tower, communications facility, 4 miles of fiber optic, and communication equipment. The existing Okeechobee Field Station property is no longer a viable site for the replacement and expansion required to accommodate the District's needs as well as permitting issues to replace obsolete facilities and tower.

This project supports the District's flood control system, restoration projects existing and future build outs, and loops the tower into the microwave communication system. The communication system provides a connection between District facilities and infrastructure using industry standard technology allowing the Operations Control Room staff to remotely operate pump stations and water control structures. This infrastructure also supports the future emergency management backup facility at the new field station. With the relocation of the field station, a tower near the new facility will need to be built to connect the new field station into the microwave loop.

Expert Construction Managers, Inc., the lowest responsive and responsible bidder for the tower, communications facility and fiber is recommended for award. In accordance with District policy and consistent with state law for Request for Bids (RFB) procurements, this item was competitively bid through a sealed bid process. The bid opening for this project was on September 27, 2023.

The communication equipment purchase, installation and implementation services will be procured through a separate contract with AVIAT US, Inc. This contract will procure the services for the equipment and field construction of infrastructure to support the District's Wide Area Network microwave communications systems, radio frequency supervisory control and data acquisition, Information Technology systems, and support District IT sub-systems required for regular critical District functions and for emergency management. These services will be procured using the National Association of State Procurement Officers ValuePoint Master Agreement Number 00318 for "Cooperative Purchasing Agreement Solicitation for Public Safety Communications Products, Services and Solutions".

Recommended Action:

A. Resolution No. 2023 - 1010 Authorize entering into a 340-day contract with Expert Construction Managers, Inc., the lowest responsive and responsible bidder, for the Okeechobee Field Station Grassy Island Communications Tower, in the amount of \$5,100,000, for which \$4,800,000 in dedicated funds (Land Acquisition Trust Fund) is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No.

4600004865)

B. Resolution No. 2023 - 1011 Authorize entering into a 608-day contract with Aviat US, Inc., for the Okeechobee Field Station Grassy Island Microwave Communications Tower Wide Area Network MW System Field Construction and Reconfiguration, using the National Association of State Procurement Officers (NASPO) ValuePoint Master Agreement Number 00318 for “Cooperative Purchasing Agreement Solicitation for Public Safety Communications Products, Services and Solutions” in an amount not to exceed \$2,820,699, of which \$2,000,000 in dedicated funds (Land Acquisition Trust Fund) are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004854)

[Resolution No. 2023-1010](#)

[Resolution No. 2023-1011](#)

[Location Map](#)

25. G-370 and G-372 Pump Station Pump Overhaul Project, Palm Beach County (Staff contact, Rich Virgil)

Agenda Item Background:

As part of the Operations and Maintenance Capital Improvement Plan, the G-370 and G-372 Pump Station Pump Overhaul Project, located in Palm Beach County, is part of the annual Operations and Maintenance Pump and Engine Overhaul Program. District staff will perform the removal and installation of the pumps, and the contractor will perform the pump refurbishment at their offsite facility. These pump stations are the inflow pump stations for STA 3/4, providing water quality improvement for stormwater runoff prior to discharge into the Central Everglades.

The G-370 and G-372 pump stations were constructed in 2004 and deficiencies were found during a recent inspection conducted under the District’s Structure Inspection Program indicating the need for the refurbishment. The purpose of the project is to overhaul seven Flowserve Corp. vertical axial flow pumps each rated at 925 cubic feet per second. Carter & VerPlanck is the Authorized Representative of Flowserve Corp who is the Original Equipment Manufacturer; therefore, this contract will be executed through a special procurement under Section 155-6, South Florida Water Management District’s Policies and Procedures. This policy provides that licensing, warranty, compatibility requirements that limit the selection to the manufacturer, including purchases of parts, repairs, or maintenance services for field equipment from the original equipment manufacturer, seller, or authorized repair facility (e.g. pumps generators, and specialized field equipment) are exempt from competition.

This project will refurbish one pump in the first fiscal year, two pumps in the second fiscal year, two pumps in the third fiscal year, and two pumps in the fourth fiscal year. Each refurbishment will take place during the dry season, with an estimated 4-6 months out of service. The project efforts include replacement and/or refurbishment of all major components to ensure an additional 20 years of uninterrupted service; increased pump efficiency; and ensures continued reliability of the pump stations to perform their intended functions by reducing the potential for a catastrophic failure of the pumping units.

Recommended Action:

Resolution No. 2023 - 1012 Authorize entering into a 1275 day contract with Carter & VerPlanck / DXP for the Pump Station G-370 and Pump Station G-372 925 cfs Pump Overhaul Project, for a contract amount not to exceed \$6,630,000, for which \$1,060,000 of Ad Valorem funds is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004867)

[Resolution No. 2023-1012](#)

[Backup Presentation](#)

26. Right of Way Occupancy Permit Requests (Staff contact, Rich Virgil)

A. Miami Shores Villas, LLC

Agenda Item Background:

Miami Shores Villas, LLC (Applicant), is applying for a Right of Way Occupancy Permit (ROW Permit) to construct a private 5-slip marina within the C-8 Canal adjacent to an existing rental apartment building located at 1280 NE 105th Street in Miami-Dade County. The applicant is the owner of the property adjacent to the right of way where the marina will be constructed. The facilities will be offered as an amenity to the residents of the apartments. In accordance with District rules, no fees will be collected from the residents for use of the facilities. This requirement will be a condition of the ROW Permit.

The proposed marina complies with all District rules and does not require any waivers. If approved, the proposed marina will not limit the District's ability to perform routine or emergency operations, maintenance, or construction activities within the right of way.

Recommended Action:

Approve issuance of Standard Right of Way Occupancy Permit 16560-R (Application No. 220221-33282).

[Backup Document](#)

B. Miami-Dade Water and Sewer Department

Agenda Item Background:

Miami-Dade Water and Sewer Department (Applicant) requests a Standard Right of Way Occupancy Permit Number 16703-R (ROW Permit) to install a buried 14-inch parallel run sanitary sewer force main within the north right of way of the C-9 Canal between N.W. 202nd Terrace and Interstate 95 (1.2 Miles) with a waiver to the requirement that the installation be located within 10 feet of the right of way line. The new force main will replace an existing 12-inch force main which was authorized by ROW Permit 2697 in 1965. The waiver is required because the new force main cannot be installed in the required location because the existing force main presently occupies the required location with 10 feet of the right of way line. The new force main is proposed to be installed 10 feet waterward of the existing force main which will locate the new force main more than 10 feet from the right of way line. The distance between the existing and new force main is needed to ensure that construction activity will not adversely impact the existing force main which must remain in service until the new force main installation is completed. The new force main will be located 90 to 100 feet

from the top of bank of the C-9 Canal. If approved, the proposed work will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

Recommended Action:

Approve issuance of Standard Right of Way Occupancy Permit 16703-R and the associated petition for waiver to allow the installation of a buried parallel run sanitary sewer to be more than 10 feet from the right of way line (Application No. 220603-34657).

[Backup Document](#)

Discussion Agenda

27. Northern Everglades and Estuaries Protection Program Briefing (Staff contact, Jennifer Reynolds)

Agenda Item Background:

The Northern Everglades and Estuaries Protection Program (NEEPP) promotes a comprehensive approach to restore and protect surface water. Comprised of the Lake Okeechobee Watershed (LOW), Caloosahatchee River Watershed (CRW), and St. Lucie River Watershed (SLRW), the NEEPP uses a combination of research, monitoring, source controls and construction projects to reduce nutrients and increase water storage opportunities in the three watersheds. Water quality improvements in the Northern Everglades watersheds are a shared responsibility between the Florida Department of Environmental Protection, Florida Department of Agriculture and Consumer Services, and the District (Coordinating Agencies). This item will highlight ongoing NEEPP efforts to support the state's water quality goals and restoration of the Northern Everglades ecosystems.

Technical Reports

28. Water Conditions Report - John P. Mitnik
29. Ecological Conditions Report - Lawrence Glenn

Staff Reports

30. Monthly Financial Report - Candida Heater, Division Director - Administrative Services
31. General Public Comment
32. Board Comment
33. Adjourn

eComment received for item number 11, final presentations for item numbers 17, 27, 28, and 29, and NEPP Project Update

Agenda Item Background:

- 11 eComment Cranford
- 11 eComment Duke
- 17 Release of Reservations
- 27 Reynolds NEEPP Briefing
- 28 Mitnik Water Conditions Report
- 29 Glenn Ecological Conditions Report

Public Comment Procedure

The South Florida Water Management District Governing Board encourages the public to provide comment and input to the Governing Board. Public comment is accepted at the two dedicated General Public Comment periods at the beginning and the end of the meeting. Public comment is also accepted on the Consent Agenda and each Discussion Agenda item.

MEMORANDUM

TO: Governing Board Members

FROM: Ray Palmer, Real Estate

DATE: October 12, 2023

SUBJECT: Land Acquisition, Tract KC100-036, Lake Hicpochee Hydrologic Enhancement Project, Glades County

Agenda Item Background:

The District is proposing to acquire 3.0 acres for the Lake Hicpochee Hydrologic Enhancement Project in Glades County. The proposed acquisition includes an access road that divides the two portions of the Project's approximately 2,510-acre District Tract KC100-018, which is adjacent to the Project's existing approximately 700-acre Lake Hicpochee Flow Equalization Basin. An expansion of the Flow Equalization Basin will be constructed on approximately 2,350 acres of the Tract KC100-018 lands with a new G-795 Pump Station being installed to fill the expansion. An inflow canal, that will supply water from the C-43 Canal to the G-795 Pump Station, will be constructed within the remaining approximately 165 acres of the Tract KC100-018 lands and within the proposed 3.0-acre acquisition to connect to the G-795 Pump Station. The purchase price is \$22,500.

Additional Item Background:

The attached Exhibit "A" map serves to locate and identify the various background items. Since the acquisition area serves as an access for the District and for several properties to the south of the Tract, the appraiser applied a 50% value reduction. Therefore, the appraised value is only \$15,000.

Core Mission and Strategic Priorities:

The Project will provide shallow water storage north of Lake Hicpochee with incidental habitat restoration and water quality treatment benefits to Lake Hicpochee. The Project is included in the District's Five-Year Plan of Acquisition.

Funding Source:

The \$22,500 acquisition cost and all associated costs will be funded from dedicated funds (Land Acquisition Trust Fund).

Staff Contact and/or Presenter:

Ray Palmer, rpalmer@sfwmd.gov, 561-682-2246

ATTACHMENTS:

[Memorandum Exhibit "A"](#)

[Resolution No. 2023-1001](#)

Resolution Exhibit "A"

Resolution No. 2023-1002

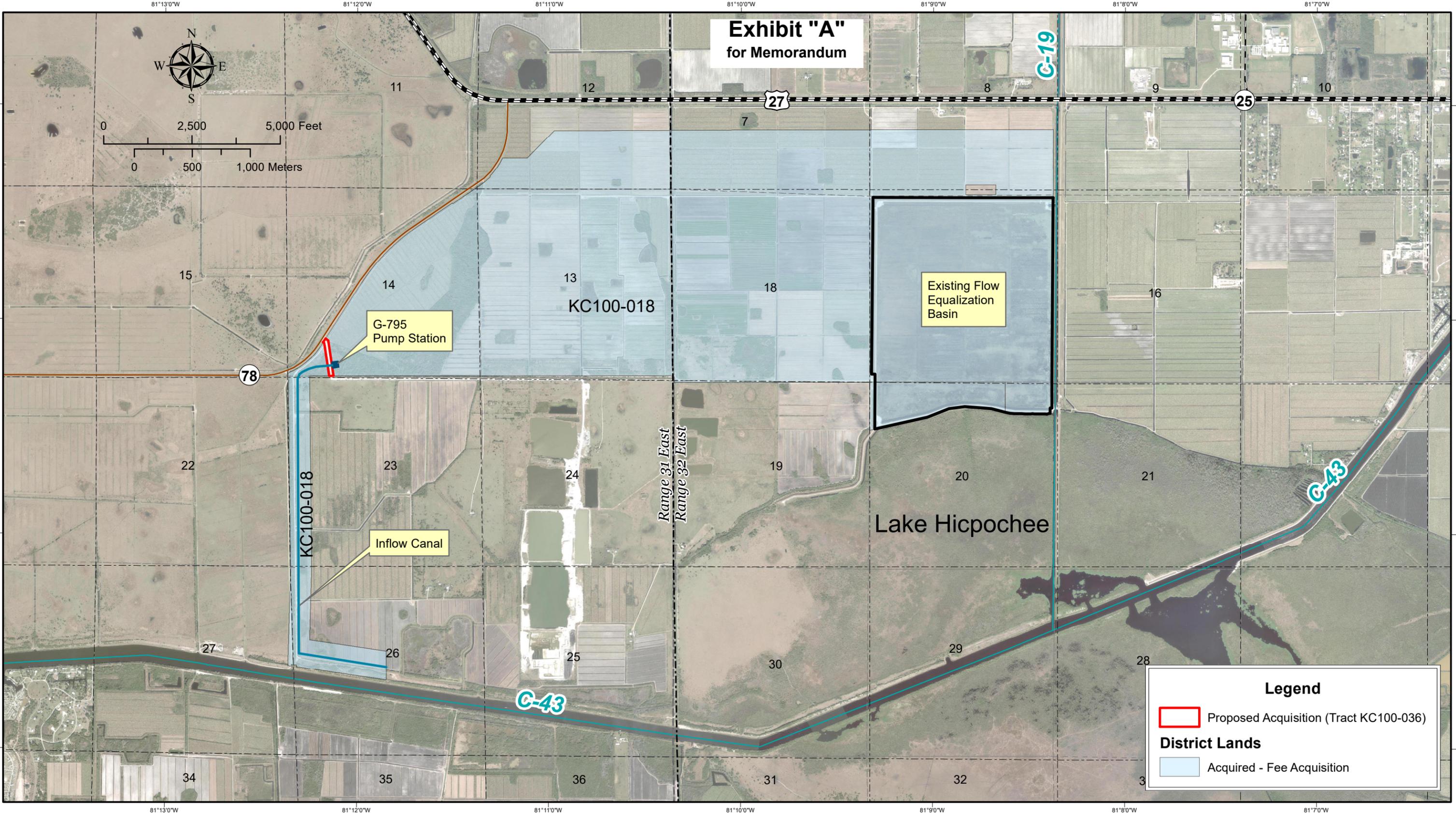
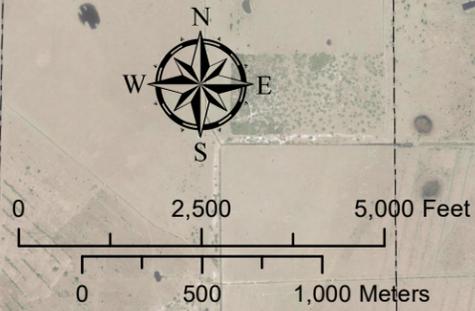


Exhibit "A"
for Memorandum



Legend

- Proposed Acquisition (Tract KC100-036)
- District Lands**
- Acquired - Fee Acquisition

BASE CREDITS:

- Base map from South Florida Water Mgmt. District, February 2017
- State Plane Projection, Florida East Zone, NAD 83-HARN, US feet
- Glades 2021 6IN Aerial

South Florida Water Management District
3301 Gun Club Rd, West Palm Beach, FL 33406
(561) 686-8800; www.sfwmd.gov

Lake Hicpochee Hydrologic Enhancement Project

Glades County

IMPORTANT DISCLAIMER:
This map is a conceptual or planning tool only. The South Florida Water Management District does not guarantee or make any representation regarding the information contained herein. It is not self-executing or binding, and does not affect the interests of any persons or properties, including any present or future right or use of real property.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

2023- _____

A Resolution of the Governing Board of the South Florida Water Management District to acquire land interests containing 3.0 acres, more or less, located in the Lake Hicpochee Hydrologic Enhancement Project in Glades County, in the amount of \$22,500, plus associated costs, for which dedicated funds (Land Acquisition Trust Fund) are budgeted; providing an effective date.

WHEREAS, the South Florida Water Management District has acquired lands for the Lake Hicpochee Hydrologic Enhancement Project, in Glades County (the "Project"); and

WHEREAS, the District desires to purchase land interests containing 3.0 acres, more or less, for the Project, as shown on the location map Exhibit "A", attached hereto and made a part hereof, in the amount of \$22,500, for which dedicated funds (Land Acquisition Trust Fund) are budgeted; and

WHEREAS, the South Florida Water Management District is authorized to acquire land, or interests or rights in land, pursuant to Section 373.139, Florida Statutes.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves the purchase of the land interests, containing 3.0 acres, more or less, identified in the attached Exhibit "A", in the Lake Hicpochee Hydrologic Enhancement Project, in Glades County, in the amount of \$22,500, plus associated costs, for which dedicated funds (Land Acquisition Trust Fund) are budgeted, as follows:

Owner	Tract No.	Interest	Acres	Appraised Value	Purchase Price
Stanley T. Bronson	KC100-036	Fee	3.0	\$15,000	\$22,500

Amount	Fund	Fund Center	Functional Area	GL	Account Description
\$22,500	425000	3510144000	J151	580020	Acquisition

Section 2. The Governing Board of the South Florida Water Management District hereby authorizes the Chairman or Vice Chairman to execute the Agreement for Sale and Purchase, and further authorizes the Executive Director or his designee to make any determinations in connection with the transaction and execute all other documents necessary to consummate this transaction.

Section 3. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 12th day of October, 2023.

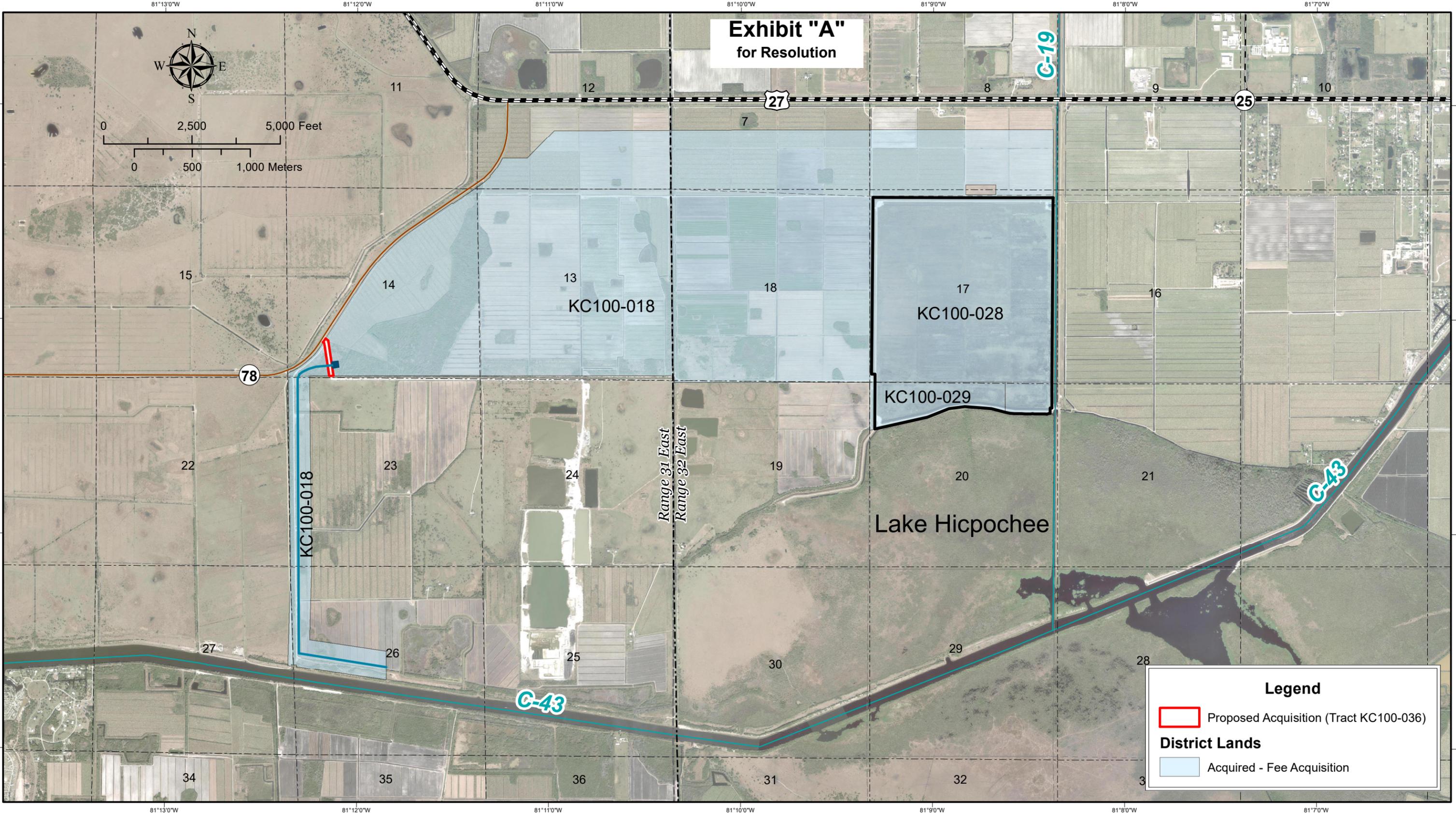


Exhibit "A"
for Resolution

Legend

- Proposed Acquisition (Tract KC100-036)
- District Lands**
- Acquired - Fee Acquisition

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - _____

A Resolution of the Governing Board of the South Florida Water Management District advising the Florida Department of Environmental Protection of the proposed acquisition of land interests containing 3.0 acres, more or less, for the Lake Hicpochee Hydrologic Enhancement Project in Glades County, and requesting the release of funds in the amount of \$22,500 and associated costs from the Land Acquisition Trust Fund for acquisition of such land interests; providing an effective date.

WHEREAS, the South Florida Water Management District is acquiring land for the Lake Hicpochee Hydrologic Enhancement Project (“Project”); and

WHEREAS, the District desires to purchase land interests for the Project in Glades County, containing 3.0 acres, more or less, identified as Tract No. KC100-036, and as shown on the location map Exhibit “A”, attached hereto and made a part hereof, in the amount of \$22,500 and associated costs; and

WHEREAS, pursuant to Section 373.139(3)(c) Florida Statutes, the District is required to submit a resolution to the Florida Department of Environmental Protection when requesting funds from a trust fund, including the Land Acquisition Trust Fund.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. It does hereby advise the Secretary of the Florida Department of Environmental Protection of its intent to acquire fee title to Tract KC100-036 (the “Tract”), containing 3.0 acres, more or less, in Glades County, Florida, for the Lake Hicpochee Hydrological Enhancement Project, at a cost of \$22,500 and associated costs. The District has a contract to acquire the Tract. The Tract is shown on the map attached hereto and made a part hereof as Exhibit “A.”

Section 2. The purchase price of the Tract of \$22,500 exceeds the \$15,000 appraised value based on the certified appraisal used to determine the value of the land interests to be purchased, together with severance and cost to cure damages, taking into account the value of improvements, non-cash considerations, defects in title or outstanding interests. The District staff has determined that it will be cost effective and beneficial to the implementation of the Project, and in the District’s best interest to avoid other risks and potential added expenses, to acquire the land interests for a purchase price of \$22,500 or \$7,500 over the approved appraised value.

Section 3. The lands being acquired have been reviewed for the presence of State Sovereign submerged lands and the District has taken reasonable measures to avoid paying for sovereign lands.

Section 4. This request for funds is consistent with the District's Five-Year Plan of acquisition for the South Florida Water Management District Florida Forever Work Plan, as contained in Chapter 6A, Volume II of the South Florida Environmental Report, which has been filed with the Legislature and the Florida Department of Environmental Protection, and is consistent with Sections 373.139 and 373.470, Florida Statutes, as applicable.

Section 5. Acquisition of this land furthers the following Florida Forever goals set forth in Section 259.105(4), Florida Statutes:

259.105(4)(a) Enhance the coordination and completion of land acquisition projects as measured by:

1. The number of acres acquired through the state's land acquisition programs that contribute to the enhancement of essential natural resources, ecosystem service parcels, and connecting linkage corridors as identified and developed by the best available scientific analysis.

259.105(4)(c) Protect, restore, and maintain the quality and natural functions of land, water, and wetland systems of the state, as measured by:

1. The number of acres of publicly owned land identified as needing restoration, enhancement, and management, acres undergoing restoration or enhancement, acres with restoration activities completed, and acres managed to maintain such restored or enhanced conditions; the number of acres which represent actual or potential imperiled species habitat; the number of acres which are available pursuant to a management plan to restore, enhance, repopulate, and manage imperiled species habitat; and the number of acres of imperiled species habitat managed, restored, enhance, repopulated, or acquired;
8. The number of acres of functional wetland systems protected.

259.105(4)(d) Ensure that sufficient quantities of water are available to meet the current and future needs of natural systems and the citizens of the state, as measured by:

1. The number of acres acquired which provide retention and storage of surface water in naturally occurring storage areas,

such as lakes and wetlands, consistent with the maintenance of water resources or water supplies and consistent with district water supply plans.

Section 6. The funds requested shall be used only for the acquisition costs and associated costs incurred during the process of acquiring the described land interests.

Section 7. The land interests being acquired shall be maintained in an environmentally acceptable manner.

Section 8. Should the District dispose of any or all of the interests acquired hereunder, all revenues derived therefrom will be used to acquire other lands for water management, water supply and the conservation and protection of water resources, within the boundaries of a District project.

Section 9. A Phase I environmental assessment of the property has been conducted and there are no existing environmental concerns. If any environmental concerns are discovered they will be remediated, as necessary, and any risks will be borne by the District.

Section 10. The lands shall be managed for multiple-use purposes, including recreational uses, where compatible with the resource values of and management objectives for such lands as set forth in Section 259.105(4), Florida Statutes.

Section 11. The Executive Director, or designee, is hereby authorized to request the release of funds for all acquisition costs, associated costs and expenses for the land interests identified in this Resolution.

Section 12. The Resolution to approve the acquisition of these land interests was approved by the Governing Board of the District on October 12, 2023.

Section 13. The District will utilize funds from the Land Acquisition Trust Fund.

Section 14. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED on this 12th day of October, 2023.

MEMORANDUM

TO: Governing Board Members
FROM: Ray Palmer, Real Estate
DATE: October 12, 2023
SUBJECT: Release of Reservations

Agenda Item Background:

The District has certain reserved rights to construct canal and road right of ways. Applications requesting release of these reservations are received as they constitute a defect on title which must be resolved prior to a property sale, especially when financing is involved. Applications are reviewed to determine if there is a present or future need for the reservations. If it has been determined there is no present or future need, staff recommend that the reservations are released for payment of a value equal to three percent of the appraised value of the land on the Property Appraiser's website in the County where the property is located.

Staff evaluated the properties' size and location for future resiliency purposes related to water storage. This storage opportunity was further evaluated with respect to the specific development being proposed on the property. The subject properties will each have 60% greenspace set aside as required by county rules. Additionally, to protect that greenspace, a conservation easement will be recorded in favor of Palm Beach County and the District will be named as a beneficiary. This greenspace set aside provides for pervious infiltration and storage in and on the landscape and inherently provides for more resilient water management in the area. The remainder of the property would be permitted pursuant to Environmental Resource Permit stormwater management requirements.

Therefore, given the nature of the development and requisite conservation easement, District staff recommends release of the reservations.

Palm Beach County

- Release District canal and road reservations for Barbara M. Logan, Trustee of the Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004 (File No. 18932) for 39.24+/- acres; subject to release value payment in the amount of \$249,702.57
- Release District canal and road reservations for Patricia A. Mazzoni and Thomas A. Smith, Co-Trustees of the William A. Mazzoni Revocable Trust dated June 4, 1992 (File No. 18935) for 92.66+/- acres; subject to release value payment in the amount of \$645,956.04

Additional Item Background:

See Memorandum Exhibit "A" and maps attached hereto and made a part hereof, which contain the details and location of the releases to be issued.

Core Mission and Strategic Priorities:

Pursuant to Section 373.096 of the Florida Statutes, the Governing Board of the District may issue a release for any reservation under terms and conditions determined by the Governing Board.

Staff Contact and/or Presenter:

Ray Palmer, rpalmer@sfwmd.gov, 561-682-2246

ATTACHMENTS:

[Memorandum Exhibit A](#)

[Resolution No. 2023-1003](#)

[Resolution Exhibit A](#)

[Maps](#)

[Erickson Preserve Areas Map](#)

MEMORANDUM – EXHIBIT “A”

Palm Beach County

File No: 18932
Applicant: Barbara M. Logan, Trustee of the Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004
Reserving Deeds: E-2851 (DB 714-157, 4/12/1945) T-2232 (DB 332-336, 10/15/1925) T-4303 (DB 381-109, 3/21/1926) T-5205 (DB 425-80, 6/22/1927)
Application Fee Paid: \$250.00
Release Value: \$249,702.57 (unpaid)
Action: Release District canal and road reservations, subject to payment of \$249,702.57 for release of District real property interests
Acres: 39.24 acres, more or less
Legal Description: Portions of Tracts 7, 8, 25, 26, 39, 40, 57 and 58, BLOCK 54, PALM BEACH FARMS COMPANY PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East
Location: 11275 Acme Dairy Road, Boynton Beach, Palm Beach County
Reviewed By: Real Estate Bureau; Field Operations Division; Water Supply Development Section; Right of Way Section; Environmental Recourse Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; Office of Counsel, and Lake Worth Drainage District

File No: 18935
Applicant: Patricia A. Mazzoni and Thomas A. Smith, Co-Trustees of the William A. Mazzoni Revocable Trust dated June 4, 1992
Reserving Deeds: E-516 (DB 685-589, 4/15/1944) E-2851 (DB 714-157, 4/12/1945) E-4634 (DB 747-247, 1/29/1946) E-4634C (DB 781-402, 9/19/1946)
Application Fee Paid: \$250.00
Release Value: \$645,956.04 (unpaid)
Action: Release District canal and road reservations, subject to payment of \$645,956.04 for release of District real property interests
Acres: 92.66 acres, more or less
Legal Description: Portions of Tracts 2 through 6; 27 through 31; 34 through 38, and 59 through 63, Block 54, THE PALM BEACH FARMS CO. PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East
Location: 8344 Boynton Beach Blvd., Boynton Beach, Palm Beach County
Reviewed By: Real Estate Bureau; Field Operations Division; Water Supply Development Section; Right of Way Section; Environmental Recourse Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; Office of Counsel, and Lake Worth Drainage District

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to release certain canal and road reservations following execution of an agreement designating the District as a beneficiary of a recorded conservation easement pertaining to the property; providing an effective date.

WHEREAS, the applicant has requested that the South Florida Water Management District release certain District canal and road reservations; and

WHEREAS, the District is empowered to grant such releases pursuant to Section 373.096, Florida Statutes, under terms and conditions determined by the Governing Board.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves the release of certain canal and road reservations following execution of an agreement designating the District as a beneficiary of a recorded conservation easement pertaining to the property. The property is described in Resolution Exhibit "A" attached hereto and made a part hereof.

Section 2. This Resolution shall take effect immediately upon adoption.

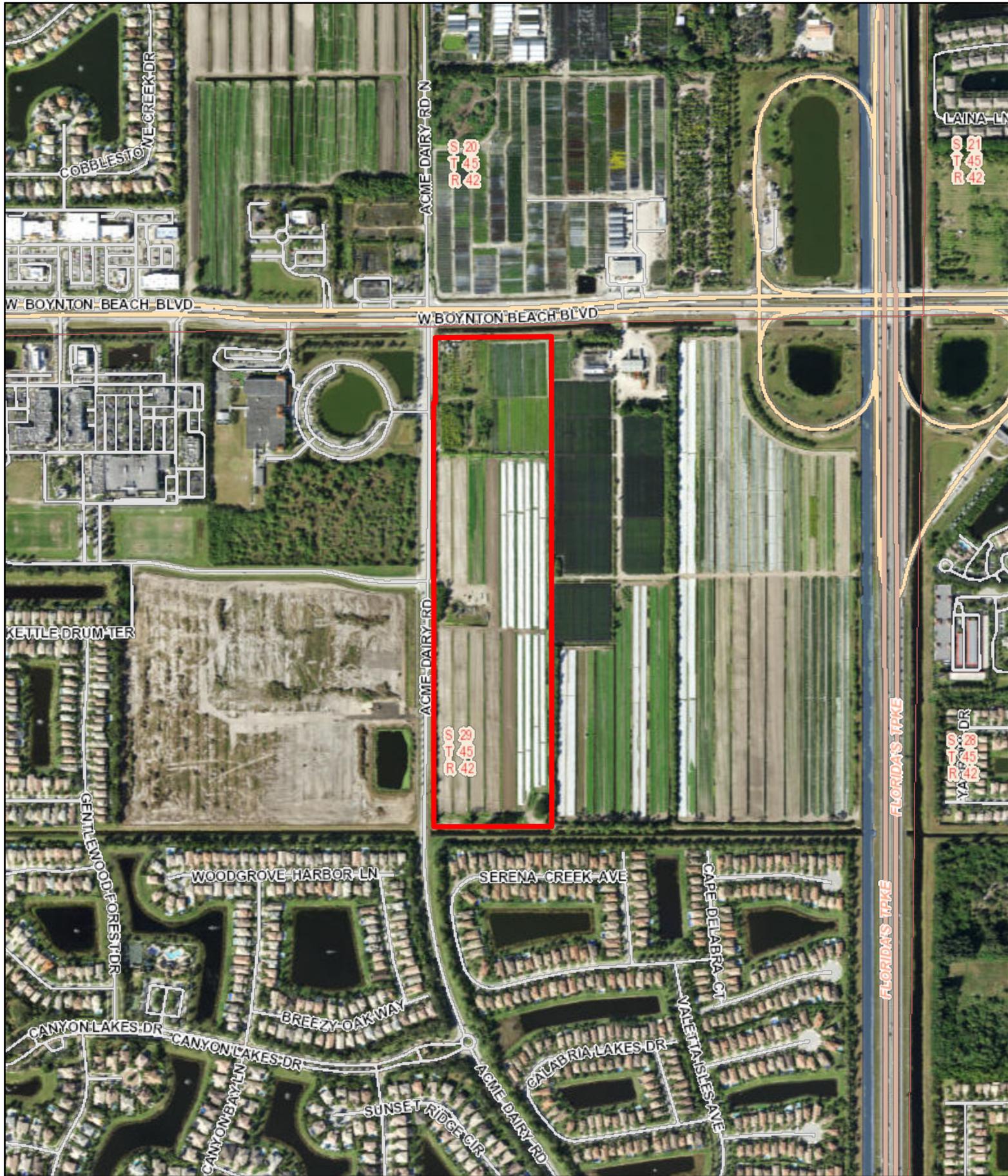
PASSED and **ADOPTED** this 12th day of October, 2023.

RESOLUTION – EXHIBIT “A”

Palm Beach County

File No: 18932
Applicant: Barbara M. Logan, Trustee of the Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004
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Release Value: \$249,702.57 (unpaid)
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Legal Description: Portions of Tracts 7 ,8 ,25, 26, 39, 40, 57 and 58, BLOCK 54, PALM BEACH FARMS COMPANY PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East
Location: 11275 Acme Dairy Road, Boynton Beach, Palm Beach County

File No: 18935
Applicant: Patricia A. Mazzoni and Thomas A. Smith, Co-Trustees of the William A. Mazzoni Revocable Trust dated June 4, 1992
Reserving Deeds: E-516 (DB 685-589, 4/15/1944), E-2851 (DB 714-157, 4/12/1945), E-4634 (DB 747-247, 1/29/1946) and E-4634C (DB 781-402, 9/19/1946)
Release Value: \$645,956.04 (unpaid)
Action: Release District canal and road reservations, subject to payment of \$645,956.04 for release of District real property interests
Acres: 92.66 acres, more or less
Legal Description: Portions of Tracts 2 through 6; 27 through 31; 34 through 38, and 59 through 63, Block 54, THE PALM BEACH FARMS CO. PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East
Location: 8344 Boynton Beach Blvd, Boynton Beach, Palm Beach County



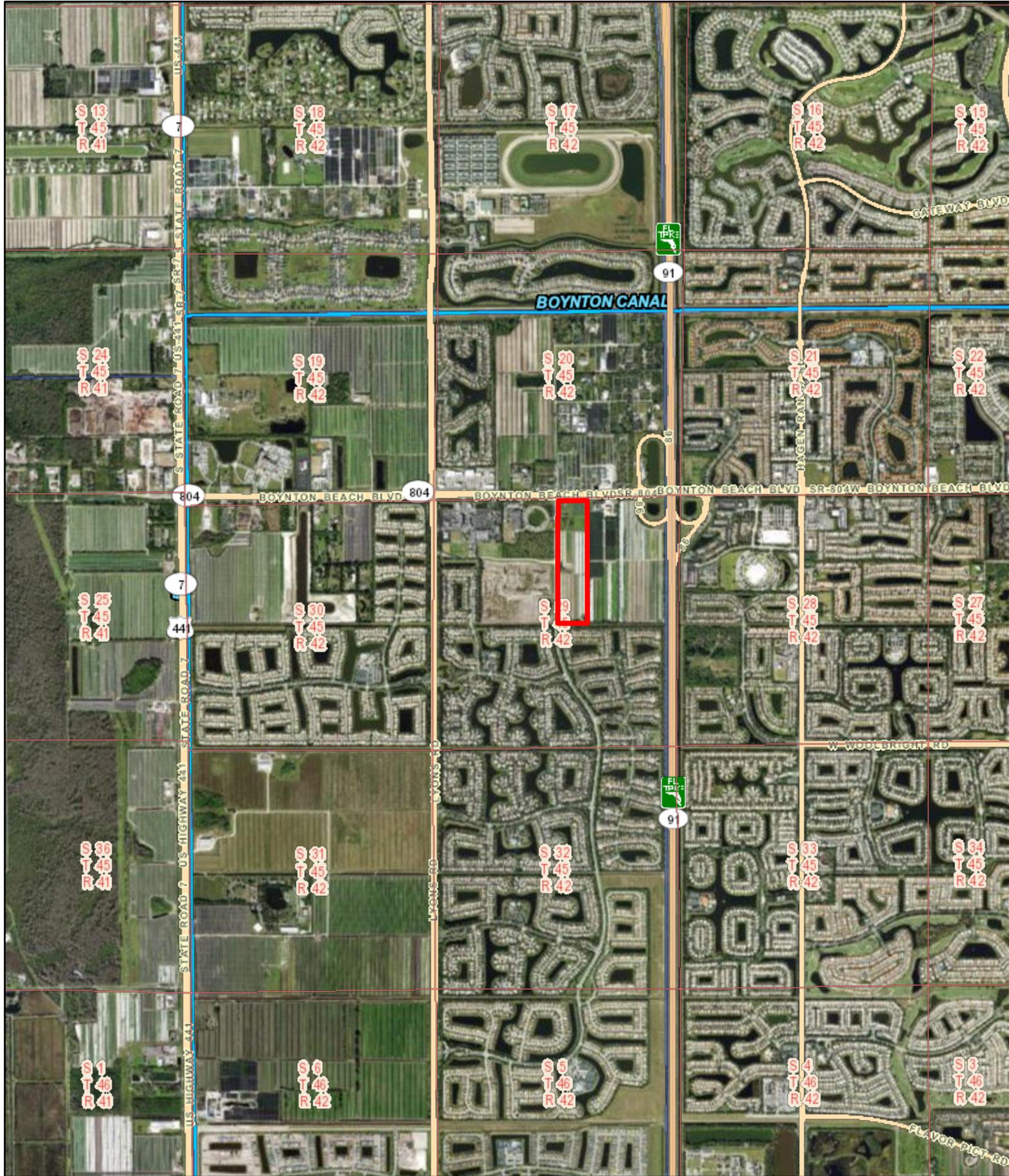
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South Florida Water Management District
 3301 Gun Club Road, West Palm Beach, Florida 33406
 561-686-8800; www.sfwmd.gov



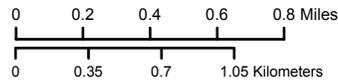
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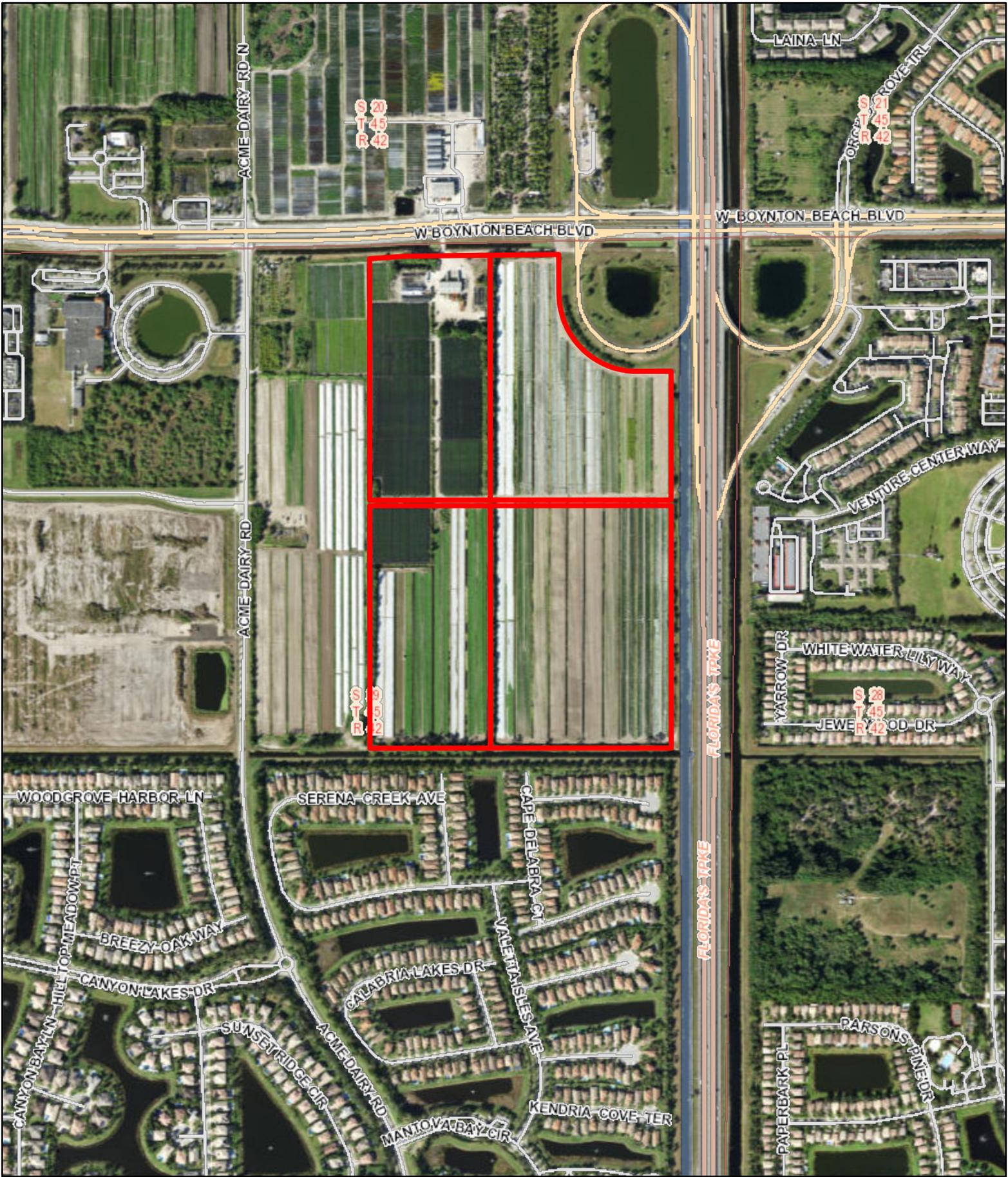
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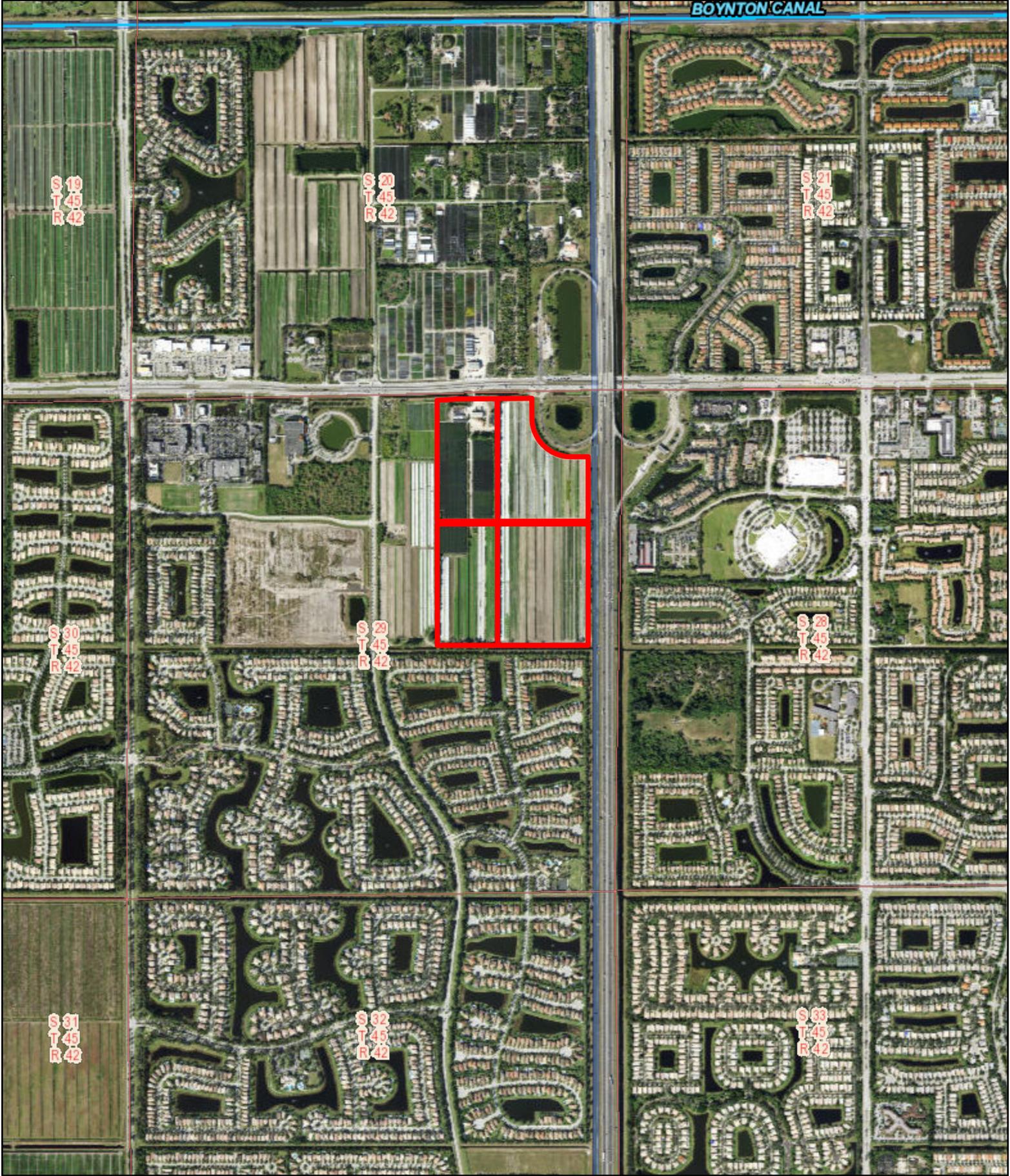
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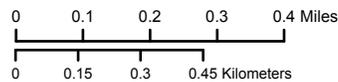
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18935

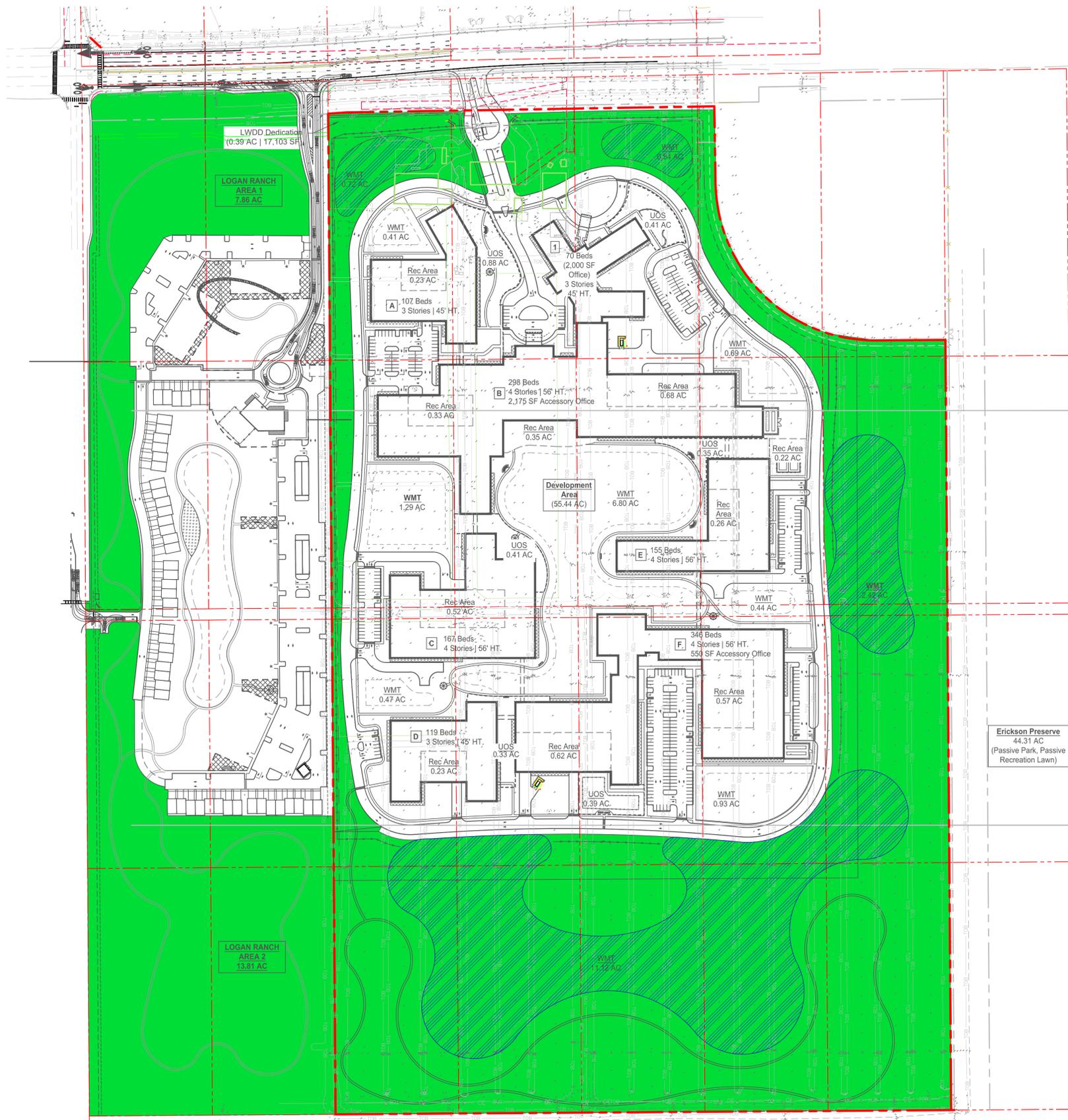


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This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



ERICKSON				
LAKES	Area (Acres)	Avg. Elev.	CW Elev.	Storage (ac ft)
LAKE 1	0.72	16.5	14.5	1.44
LAKE 2	0.54	17.5	14.5	1.62
LAKE 3	2.42	16.8	14.5	5.57
LAKE 4	11.12	16.8	14.5	25.58
			SUB TOTAL:	34.20
PRESERVE- NOT INCLUDING LAKES	Area (Acres)	Avg. Elev.	CW Elev.	Storage (ac ft)
	29.513	16.8	14.5	67.88
			SUB TOTAL:	67.88
LOGAN RANCH				
AREA 1	Area (Acres)	Avg. Elev.	CW Elev.	Storage (ac ft)
AREA 1	7.86	17	14.5	19.65
AREA 2	13.81	16.6	14.5	29.00
			SUB TOTAL:	48.65
			TOTAL STORAGE (ac ft):	150.73

No.	REVISIONS	DATE	BY

Kimley»Horn
 1920 MEVIA WAY SUITE 200, WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-863-8175
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT: 248036002
 LICENSED PROFESSIONAL: _____
 DATE: OCTOBER 2023
 SCALE: AS SHOWN
 DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: MFS DATE: _____

PRESERVE AREAS

ERICKSON BOYNTON
 BEACH BLVD
 PREPARED FOR
 ERICKSON LIVING, LLC
 UNINCORPORATED, PALM BEACH COUNTY

SHEET NUMBER
EX-1

MEMORANDUM

TO: Governing Board Members

FROM: Sean Cooley, Office of Communications & Public Engagement

DATE: October 12, 2023

SUBJECT: Vital Records Control (VRC) Contract Amendment

Agenda Item Background:

The South Florida Water Management District is required by Section 119.021, Florida Statutes to maintain and store records of agency business based on a records retention schedule. Most of the District's records are stored at a secure, offsite facility, and staff requests retrieval of records to fulfill public records requests or for agency business. The District uses VRC Companies, LLC dba Vital Records Control (VRC) for records storage, retrieval and disposal services. There are currently approximately 24,000 boxes in storage.

The contract was executed on April 23, 2019 with VRC on in the amount of \$150,000 for three years and one 2-year renewal option. The contract was issued as a piggyback on the State of Florida's Agreement for Document Management Services Contract No. 78131804-17-01 that expires on August 21, 2026. Staff is seeking authorization to amend the contract with VRC to increase the contract amount by \$250,000 and extend the contract by 850 days using the State of Florida's Agreement for Document Management Services Contract No. 78131804-17-01, for a revised contract amount of \$495,978.38.

Funding Source:

\$40,000 of Ad Valorem funds is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets.

Staff Contact and/or Presenter:

Sean Cooley, scooley@sfwmd.gov, (561) 682-2019

ATTACHMENTS:

[Resolution No. 2023 - 1004](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize an amendment to the contract with VRC Companies, LLC dba Vital Records Control for records storage, retrieval and disposal services, for the purpose of increasing the contract amount by \$250,000 and extending the contract by 850 days using the State of Florida's Agreement for Document Management Services Contract No. 78131804-17-01, for a revised contract amount of \$495,978.38, for which \$40,000 of Ad Valorem funds is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004006-A04)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize an amendment to Contract No. 4600004006 with VRC Companies, LLC dba Vital Records Control, for the purpose of increasing the contract amount by \$250,000 and extending the contract by 850 days using the State of Florida's Contract No. 78131804-17-01, for a revised contract amount of \$495,978.38 for which \$40,000 of Ad Valorem funds is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004006-A04)

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes an amendment to the contract with VRC Companies, LLC dba Vital Records Control, for the purpose of increasing the contract amount by \$250,000 and extending the contract by 850 days. (Contract No. 4600004006-A04)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 12th day of October, 2023.

MEMORANDUM

TO: Governing Board Members

FROM: Lawrence Glenn, Water Resources Division

DATE: October 12, 2023

SUBJECT: Fiscal Year 2024 Five-Year Water Resource Development Work Program

Agenda Item Background:

The Five-Year Water Resource Development Work Program (Work Program) is an update report that includes a draft evaluation of the Work Program's consistency with the District's regional water supply plans and the adequacy of the proposed expenditures pursuant to Section 373.536, Florida Statutes. The Fiscal Year 2024 Work Program includes the period from October 1, 2023 through September 30, 2028. The Work Program contains, for example, projects involving water conservation, resource evaluation, and regional water resource development. Within 30 days of budget adoption, the water management districts are required to submit the Work Program to several entities, including the Governor, the President of the Senate, the Speaker of the House of Representatives, and the Florida Department of Environmental Protection. This item also authorizes District staff to address and incorporate appropriate revisions as a result of agency and/or public comment to the Work Program prior to inclusion into the final Fiscal Year 2024 South Florida Environmental Report.

Additional Item Background:

Meeting the water needs of the environment and current and future demands of water users is part of the District's core mission. Florida law identifies water resource development projects (primarily the District's responsibility) and water supply development projects (involving public and private facilities, which are the responsibility of local water users) as two types of projects to meet water needs. Following external review, the Work Program will be incorporated into the Fiscal Year 2024 South Florida Environmental Report, Volume II as Chapter 5A.

Funding Source:

Implementation of the water resource development projects identified in the District's regional water supply plans are funded through a combination of local, District, and state funds, as appropriate and available. The District has allocated over \$583 million in ad valorem funding and state funds in Fiscal Year 2024 for Water Resource Development Projects, \$161.7 million of which is associated with operation of the Central and Southern Florida Flood Control Project to provide water supply to the region.

Staff Contact and/or Presenter:

Stacey Payseno, spayseno@sfwmd.gov, 561-682-2577

ATTACHMENTS:

[Resolution No. 2023 - 1005](#)

Draft Fiscal Year 2024 Five-Year Water Resource Development Work Program

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District authorizing the transmittal of the draft Fiscal Year 2024 Five-Year Water Resource Development Work Program pursuant to Section 373.536(6)(a)4., Florida Statutes (F.S.); providing an effective date.

WHEREAS, pursuant to Section 373.536(6)(a)4., F.S., South Florida Water Management District (District) staff prepared the draft Fiscal Year (FY) 2024 Five-Year Water Resource Development Work Program (Work Program);

WHEREAS, the Work Program includes an evaluation of the Work Program's consistency with the furtherance of the District's regional water supply plans and the adequacy of the proposed expenditures;

WHEREAS, the Work Program must be provided to the Governor, the President of the Senate, the Speaker of the House of Representatives, the Florida Department of Environmental Protection (Department), and others within 30 days of final budget adoption for review and comment;

WHEREAS, the Governing Board approved and adopted the District's final budget on September 26, 2023;

WHEREAS, within 45 days of receipt of the Department's evaluation of the Work Program, the Governing Board is required to state in writing to the Department which changes recommended in the evaluation will be incorporated into the Work Program, which is then submitted as part of the Consolidated Water Management District Annual Report required by Section 373.036(7), F.S., or specify the reasons for not incorporating the changes into the Work Program;

WHEREAS, the FY2024 Work Program will be contained in Volume II, Chapter 5A of the FY2024 Consolidated Water Management District Annual Report (referred to as the South Florida Environmental Report); **now therefore**

BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The District Governing Board accepts the draft FY2024 Five-Year Water Resource Development Work Program and concurs with the transmittal to the parties outlined in Section 373.536(6)(a), F.S., for review.

Section 2. The Governing Board delegates the review of the Department's evaluation of the Work Program to District staff and authorizes District staff to incorporate suggested changes into the Work Program. Furthermore, District staff is authorized to inform the Department which changes to the Work Program have been accepted or specify the reasons for not incorporating the changes.

Section 3. A copy of the final 2024 Work Program shall be incorporated in Volume II, Chapter 5A of the FY2024 South Florida Environmental Report.

Section 4. This resolution shall take effect immediately upon adoption.

PASSED and ADOPTED on this 12th day of October, 2023.

DRAFT

Fiscal Year 2024 Five-Year Water Resource Development Work Program

October 2023



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Literature Cited 19

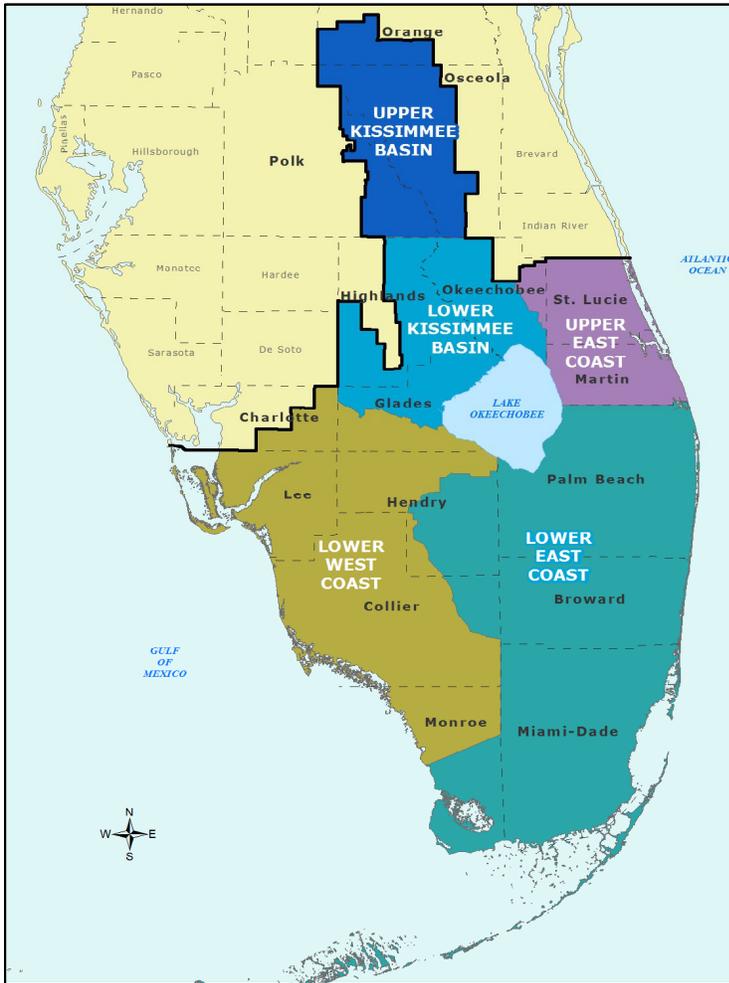
INTRODUCTION

Water management districts are required by Section 373.709, Florida Statutes (F.S.), to develop a regional water supply plan (RWSP) if they determine the existing sources of water (1) are inadequate to supply water for all existing and future reasonable-beneficial uses, and/or (2) may not sustain water resources and related natural systems for a 20-year planning period. RWSPs include analysis of current and future water demands, evaluation of available water sources, and identification of planned or proposed water resource and water supply development projects to meet demands.

The South Florida Water Management District (SFWMD or District) is required to prepare a Five-Year Water Resource Development Work Program (Work Program) as part of its annual budget reporting process, pursuant to Section 373.536(6)(a)4., F.S. The Work Program must describe SFWMD's implementation strategy and include an annual funding plan for each of the 5 years included in the Work Program for the water resource and water supply development components, including alternative water supply (AWS) development, of each approved RWSP. Furthermore, the Work Program must do the following:

- Address all elements of the water resource development component of the approved RWSPs as well as the water supply development projects proposed for SFWMD funding and assistance.
- Identify available SFWMD funding and anticipated additional funding needs for years 2 through 5 of the funding plan.
- Identify projects that will provide water, including an estimate of the quantity produced.
- Explain how each water resource and water supply development project will produce additional water supply for consumptive uses.
- Assess the contribution of the RWSPs in supporting the implementation of minimum flows and minimum water levels (MFLs) and water reservations.
- Ensure sufficient water is available to meet the water supply needs of existing and future reasonable-beneficial uses for a 1-in-10-year drought event and to avoid adverse effects of competition for water supplies.

This Work Program covers the period from Fiscal Year (FY) 2023-2024 through FY2027-2028 and is consistent with the planning strategies of the District's RWSPs. The SFWMD has developed RWSPs for five distinct regional planning areas (**Figure 1**): Upper Kissimmee Basin (UKB), Lower Kissimmee Basin (LKB), Upper East Coast (UEC), Lower West Coast (LWC), and Lower East Coast (LEC). The Upper Kissimmee Basin is part of the Central Florida Water Initiative (CFWI), which covers Orange, Osceola, Polk, and Seminole counties as well as southern Lake County. The CFWI is a collaborative planning effort by three water management districts (SFWMD, Southwest Florida Water Management District, and St. Johns River Water Management District) as well as other agencies and stakeholders to identify sustainable water supply options and potential projects to meet future demands while protecting, conserving, and restoring water resources in Central Florida. The approval dates of the most recent RWSPs (SFWMD LEC 2024 [in prep], LKB 2019, UEC 2021, LWC 2022; CFWI 2020) and the next updates for each planning area are identified in **Table 1**. RWSP updates will have a common planning horizon of 2045. For additional information about the District's RWSPs, please visit <https://www.sfwmd.gov/our-work/water-supply>.



- **Upper Kissimmee Basin:** Portions of Osceola, Orange, and Polk counties
- **Lower Kissimmee Basin:** Portions of Okeechobee, Highlands, and Glades counties
- **Upper East Coast:** Martin and St. Lucie counties and eastern Okeechobee County
- **Lower East Coast:** Palm Beach, Broward, and Miami-Dade counties, and portions of Monroe, Collier, and Hendry counties
- **Lower West Coast:** Lee County and portions of Collier, Glades, Hendry, Monroe, and Charlotte counties

Figure 1. Regional water supply planning areas in the SFWMD.

Table 1. Current water supply plan approval dates and 5-year updates schedule.

Planning Region	Current Water Supply Plan	Next Update
Lower East Coast	April 2024 ^a	November 2028
Lower Kissimmee Basin	December 2019	November 2024
Central Florida Water Initiative	November 2020	November 2025
Upper East Coast	November 2021	November 2026
Lower West Coast	December 2022	November 2027

a. The 2023 Lower East Coast Water Supply Plan Update is anticipated for Governing Board approval in April 2024.

The population within the District’s boundaries is expected to increase by approximately 2.2 million people, to approximately 11 million people by 2040. The population growth rate varies throughout the District, with some counties experiencing faster growth than others. Raw water demand for all water use categories is projected to increase by 452 million gallons per day (mgd) (2020), to approximately 4.0 billion gallons per day in 2040. Overall, demand projections in the most recent RWSP updates are lower than in previous updates.

In response to rapid population increases between 2006 and 2010 and high population and associated demand projections at that time, many utilities within the SFWMD's boundaries expanded water treatment facilities, developed AWS sources, and secured increased permit allocations to meet anticipated water needs. However, following the 2008 to 2012 economic recession, the anticipated population growth did not occur, and growth projections were substantially reduced. In addition, per capita use rates declined due to the economy, water shortage restrictions, implementation of year-round landscape irrigation restrictions, and an emerging water conservation ethic. These conditions left many utilities with reduced future demands and constructed treatment capacity that may not be fully utilized until well into the future. As a result, current RWSPs (except the CFWI RWSP) concluded few utilities need to construct additional water supply projects to meet their 2045 projected needs, and projects that may be needed are required at the end of the planning period, not within the next 5 years.

WORK PROGRAM SUMMARY

The Work Program presented herein is adequate to ensure water is available to meet the water supply needs of existing and future reasonable-beneficial uses during a 1-in-10 year drought event, to avoid the adverse effects of competition for water supplies, and to maintain the function of natural systems. This Work Program outlines the SFWMD's planned funding over the next 5 years, including implementation of projects associated with MFL prevention or recovery strategies and Water Reservations. Additionally, the **Appendix B** to this Work Program includes the implementation costs and details of projects associated with basin management action plans (BMAPs).

SFWMD projects that supply water primarily for the environment, including projects associated with the Comprehensive Everglades Restoration Plan (CERP), Restoration Strategies, or other restoration projects are presented in the District's *South Florida Environmental Report (SFER) – Volume II* and SFER Consolidated Project Report Database, which are accessible at www.sfwmd.gov/sfer.

The FY2023-2024 through FY2027-2028 implementation schedule and projected expenditures (including salaries, benefits, and operating expenses) for water resource development activities are provided in this document and reflect the SFWMD's continued commitment to ensuring adequate resources are available to meet existing and future reasonable-beneficial needs. The estimated funding allocation identified for the next 5 years is approximately \$3.87 billion. This Work Program is estimated to make available more than 1,683 mgd annually as a result of these ongoing programmatic efforts. Most of this anticipated water will be delivered from the Central and Southern Florida Flood Control Project (C&SF Project) regional system to the LEC Planning Area through structure releases to maintain canal levels and through regional seepage that helps maintain LEC groundwater levels for water supply purposes. This amount will increase with water made available upon completion of water supply development projects, including reuse and non-reuse water for urban and agricultural water supply that will be funded through the Cooperative Funding Program (CFP).

As part of their annual progress reports required by Section 373.709(8)(b), F.S., potable water supply utilities have tentatively identified 48 reuse and non-reuse water supply development projects they plan to construct with local funding between FY2023-2024 through FY2027-2028. The 48 projects will create an estimated 112.64 mgd of AWS capacity and 72.13 mgd of reclaimed water distribution capacity.

In addition to salary, benefits, and operating expenses for MFL criteria and rule development, approximately \$2.73 billion over the next 5 years is planned for construction projects supporting MFL prevention and recovery strategies. However, new water will not be available for many projects associated with MFL water bodies until all project components are completed and operational. Funding for the CERP Caloosahatchee River (C-43) West Basin Storage Reservoir project is to be used solely for environmental

purposes benefitting the Caloosahatchee River MFL. The water stored in the C-43 Reservoir is protected by a Water Reservation to prevent allocation to consumptive uses.

WATER RESOURCE AND WATER SUPPLY DEVELOPMENT

Water resource development components are those that involve the “formulation and implementation of regional water resource management strategies, including the collection and evaluation of surface water and groundwater data; structural and non-structural programs to protect and manage water resources; the development of regional water resource implementation programs; the construction, operation, and maintenance of major public works facilities to provide for flood control, surface and underground water storage, and groundwater recharge augmentation; and related technical assistance to local governments, government-owned and privately owned water utilities, and self-suppliers to the extent assistance to self-suppliers promotes the policies as set forth in s. 373.019” [Section 373.019(24), F.S.]. Most water resource development activities in the District support and enhance water supply development but do not directly yield specific quantities of water. Water resource development projects are regional in nature and primarily the responsibility of SFWMD. Two examples are the C&SF Project and CERP projects. The C&SF Project canals move water from Lake Okeechobee and the Everglades water conservation areas to maintain coastal canal levels, augment water supplies during dry times, and prevent saltwater intrusion. The canals provide water to major ecosystems as well as agricultural and urban areas. They also are a crucial component of the region’s flood control system. CERP, a partnership between the United States Army Corps of Engineers (USACE) and SFWMD, is a critical part of water supply planning, which includes capital projects needed to protect and restore natural systems and enhance water availability. CERP capital projects include the Everglades Agricultural Area (EAA) Reservoir and Stormwater Treatment Area (STA), C-43 Reservoir, and C-44 Reservoir and STA. The Governor’s Executive Order 19-12: Achieving More Now for Florida’s Environment directed funding be secured for projects that provide water quality, quantity, and supply benefits. In response to that Order, \$913 million in funding is budgeted or proposed in the next 5 years for the Lake Okeechobee Watershed Restoration Project and the EAA Storage Reservoir Conveyance Improvements and STAs, which also provide water supply benefits. Water resource development activities are listed in **Table 2**, and the implementation schedule and projected expenditures are listed in **Table 3**.

Table 2. SFWMD water resource development activities and descriptions.

Water Resource Development Activity	Activity Description
Water Supply Planning	Work associated with developing 5-year updates to the SFWMD’s RWSPs, not including the CFWI RWSP.
CFWI Planning Project	Work associated with developing the 5-year update to and implementation of the 2020 CFWI RWSP, including well drilling, wetlands monitoring, data collection and analysis, East-Central Florida Transient Expanded groundwater modeling, participation in technical and management teams, and production of the 2025 CFWI RWSP.
Local Government Assistance	Review of local government comprehensive plans and plan amendments, including water supply facilities work plans (Chapter 163, F.S.). Technical assistance to local governments (Sections 189.4156 and 373.711, F.S.) to develop and revise local government comprehensive plan elements.
Water Supply Implementation	Implementation of RWSPs, including coordination, execution, and facilitation of water resource development activities, operational changes, implementation of AWS development projects, conservation programs, and rulemaking associated with the RWSPs. This is a multi-year process that involves working closely with other agencies, local governments, utilities, the agricultural industry, and environmental interests.
Cooperative Funding Program	Funding assistance provided to local water users for AWS and water conservation projects that are consistent with the SFWMD’s core mission and RWSPs. This includes AWS funding by Big Cypress Basin when budgeted.
Comprehensive Water Conservation Program	Activities associated with implementation of the SFWMD’s Comprehensive Water Conservation Program.
MFLs and Water Reservations Activities	Activities associated with development and re-evaluation of MFLs pursuant to Sections 373.042 and 373.0421, F.S., and Water Reservations. Further discussion and a list of projects associated with an MFL prevention or recovery strategy and Water Reservations for this report time period is provided in the following sections.
Hydrologic Investigations, Groundwater Monitoring, Data Collection, and Analysis	Costs associated with the SFWMD’s maintenance of extensive groundwater monitoring networks and partnering with the United States Geological Survey to provide additional support and funding for ongoing monitoring. Documentation (including location, well construction, geophysical logging, aquifer testing, water level, and water quality, and saltwater intrusion data) is provided in various SFWMD technical publications (www.sfwmd.gov/techpubs) and its corporate environmental database, DBHYDRO (www.sfwmd.gov/dbhydro).
Groundwater Modeling	Work associated with groundwater modeling efforts in support of RWSP updates.
C&SF Project Operations and Maintenance	The estimated costs for operations and maintenance of the C&SF Project that are attributed to providing water supply. Approximately 50% of the operations and maintenance budget is allocated to providing water supply to the region.

Table 3. FY2023-2024 through FY2027-2028 implementation schedule and projected expenditures (including salaries, benefits, and operating expenses) for water resource development activities.

Regional Water Activity	Plan Implementation Cost (\$ thousands)					Total
	FY2023-2024	FY2024-2025	FY2025-2026	FY2026-2027	FY2027-2028	
Water Supply Planning Estimated finish date: Ongoing	1,155	1,155	1,155	1,155	1,155	5,775
CFWI Water Supply Planning Project Estimated finish date: Ongoing	583	583	583	583	583	2,915
Comprehensive Plan, Documents Review, and Technical Assistance to Local Governments Estimated finish date: Ongoing	208	208	208	208	208	1,040
Water Supply Implementation Estimated finish date: Ongoing	264	264	264	264	264	1,320
MFL, Water Reservation, and Restricted Allocation Area Activities Estimated finish date: Ongoing	170	170	170	170	170	850
Comprehensive Water Conservation Program Estimated finish date: Ongoing	397	397	397	397	397	1,985
Cooperative Funding Program Estimated finish date: Ongoing	22,121	0 ^a	0 ^a	0 ^a	0 ^a	22,121
Groundwater Monitoring Estimated finish date: Ongoing	1,576	1,576	1,576	1,576	1,576	7,880
Groundwater Modeling Estimated finish date: Ongoing	1,048	1,048	1,048	1,048	1,048	5,240
Estimated Portion of C&SF Project Operation and Maintenance Budget Allocated to Water Supply ^b Estimated finish date: Ongoing	161,670	161,670	161,670	161,670	161,670	808,350
Subtotal	189,192	167,071	167,071	167,071	167,071	857,476
Regional Projects Benefiting Water Supply						
Lake Okeechobee Watershed Restoration ^c	50,000 ^d	50,000 ^d	50,000 ^d	50,000 ^d	50,000 ^d	250,000
EAA Storage Reservoir Conveyance Improvements and Stormwater Treatment Area ^{c, e}	158,621	112,200	122,700	124,800	145,000	663,321
Other Projects Associated with MFL Recovery/Prevention Strategies ^f	170,520	424,618	440,037	389,837	394,614	1,819,626
C-25 Reservoir and Stormwater Treatment Area	14,700	24,000	85,000	90,000	66,000	279,700
Subtotal	393,841	610,818	697,737	654,637	655,614	3,012,647
Total	583,033	777,889	864,808	821,708	822,685	3,870,123

a. A determination of what funds, if any, will be allocated for cooperative funding projects will be made by the Governing Board during the fiscal year budget development process.

b. Approximated based on 50% of the FY2023-2024 operation and maintenance budget, including resiliency funding.

c. Project cost based on information contained in the draft FY2024-2028 SFWMD Five-Year Capital Improvement Plan.

d. Funding contingent upon future state appropriations.

e. Includes Reservoir Inflow Pump Station, Inflow Canal Reservoir/Stormwater Treatment Area (STA), A-2 STA, North New River and Miami Canal Improvements, and Bridges.

f. Totals from **Table A-3**, less the funding for the Lake Okeechobee Watershed Restoration and EAA Storage Reservoir Conveyance Improvements and STA.

Water supply development components involve “planning, design, construction, operation, and maintenance of public or private facilities for water collection, production, treatment, transmission, or distribution for sale, resale, or end use” [Section 373.019(26), F.S.] and are primarily the responsibility of local water providers.

Cooperative Funding Program

To assist local water providers and users in the implementation of the water supply development component, the SFWMD periodically provides funding assistance to public water suppliers, local governments, special districts, homeowners’ associations, and other public and private water users for AWS and water conservation projects consistent with the SFWMD’s core mission, through the CFP. The CFP provides partnership opportunities and financial incentives to implement local projects that complement regional water supply efforts. The list of currently funded projects is shown in Appendix A, **Tables A-1** and **A-2**.

MFL AND WATER RESERVATION ACTIVITIES

MFL implementation activities include conducting research to set scientifically based criteria for defining significant harm; conducting voluntary, independent peer review of the associated science as needed; obtaining stakeholder input; and completing rulemaking. Prevention or recovery strategies are developed concurrently with MFLs to either maintain (prevention strategy) or achieve (recovery strategy) compliance with established MFLs. The SFWMD has adopted MFLs for 9 water bodies, which include 40 MFL compliance monitoring sites. Five MFL water bodies have prevention strategies, while the remaining four MFLs have recovery strategies. All four MFL water bodies with recovery strategies have projects planned in the next 5 years to move toward meeting the minimum flow or minimum water level. Four of the five water bodies that have prevention strategies rely on existing regulatory components to meet the minimum flow or minimum water level and do not involve new projects. The St. Lucie Estuary is the only MFL water body that has a prevention strategy with CERP projects planned within this Work Program.

MFL prevention or recovery strategy projects with implementation costs planned for FY2023-2024 through FY2027-2028 are listed in **Table A-3**. These projects are designed to provide new water for the MFL water body once all the project components are completed. This list does not include projects associated with improving water quality or providing additional storage within the watershed (e.g., dispersed water management projects).

Water reservations set aside water for the protection of fish and wildlife or public health and safety. Water reservations also support restoration efforts and recovery or prevention strategies for established MFLs. Before the SFWMD and USACE enter into a project partnership agreement, the legal protection of water resulting from the project is required. Either restricted allocation area (RAA) rules or water reservations provide this protection of project water and also meet the requirements of the Water Resources Development Act of 2000 for construction of CERP project components such as reservoirs or STAs. The SFWMD has adopted seven water reservations and seven RAA rules.

Most recently, rulemaking was completed to protect project water made available for the environment from the CERP Loxahatchee River Watershed Restoration Project (LRWRP). The LRWRP aims to improve freshwater flows to the Northwest Fork of the Loxahatchee River, which is a nationally designated Wild and Scenic River. The project is also part of the MFL recovery strategy for the Northwest Fork. The existing Lower East Coast Regional Water Availability Rule (Section 3.2.1.E of the *Applicant’s Handbook for Water Use Permit Applications within the South Florida Water Management District*; SFWMD 2022) was amended in June 2022 to expand the RAA boundaries to fully encompass the LRWRP footprint. Additionally, a new RAA (Section 3.2.1.G of the *Applicant’s Handbook*; SFWMD 2022) was adopted in

June 2022 to protect water associated with the LRWRP's four proposed aquifer storage and recovery (ASR) wells at the C-18W Reservoir site.

For the 5-year period through FY2027-2028, the Water Control Plan for the Caloosahatchee River (C-43) West Basin Storage Reservoir project will be developed. This plan will be coordinated with federal and state partners as the project construction continues and does not require additional rulemaking at this time. There will also be rulemaking to the Lake Okeechobee Watershed Restoration CERP Project. The project restores the natural system by modifying the overall quantity, quality, timing, and distribution of fresh water. To support restoration, water reservations, RAA rule, or both, will be developed or modified to protect the water resources.

A priority water body list and schedule, including MFLs and water reservations, is approved by the SFWMD Governing Board annually and submitted to the Florida Department of Environmental Protection (FDEP) for review and approval by November 15. A complete list of MFL, water reservation, and RAA development activities can be found on the SFWMD's website at www.sfwmd.gov/our-work/mfl, www.sfwmd.gov/our-work/water-reservations, and www.sfwmd.gov/our-work/restricted-allocation-areas.

APPENDIX A: WATER RESOURCE DEVELOPMENT WORK PROGRAM PROJECTS

Open water conservation and AWS projects funded from FY2019-2020 to FY2022-2023 through the FDEP AWS Program and Water Protection and Sustainability Program (WSPS) will be carried forward into FY2023-2024 and are listed in **Tables A-1** and **A-2**.

Consistent with sections 373.536(6)(a)4., F.S. and 373.036(7)(b)8., F.S., and in a manner that has been coordinated with the Department and all five water management Districts, the District has included information for all Water Resource Development Work Program projects, including specific projects that implement a recovery or prevention strategy, in **Table A-3**.

Table A-1. FY2019-2020 to FY2022-2023 Alternative Water Supply Projects carried forward into FY2023-2024

Entity Name	Project Name	Contract FY	Quantity of water made available upon completion (mgd)	Reclaimed or Brackish Water distribution capacity (mgd)	Total Project Cost	FDEP (AWS or Coronavirus) or WPSTF Amount	District ad valorem/ WPSTF Amount
Tohopekaliga Water Authority	Cypress Lakes Wellfield: Concentrate Disposal Well IW-2, Monitor Well, and Floridan Production Wells	2019-20	15.00	0.00	\$14,262,099	\$5,556,600	\$0
Cape Coral, City of	Reclaimed Water Expansion: Cape Coral and Fort Myers interconnect Phase I and the SW Pine Island two 5 MG Storage Tanks and High Service Pump Station	2019-20	12.00	0.00	\$28,750,000	\$3,000,000	\$0
Port St. Lucie, City of	McCarty Ranch Reservoir and Water Treatment Plant (Areas 3, 4, and 6)	2019-20	11.10	0.00	\$5,725,169	\$1,000,000	\$0
Port St. Lucie, City of	Tradition and Western Grove Communities Reclaimed Water Main Extension	2020-21	0.00	10.15	\$3,658,000	\$296,768	\$296,768
Davie, Town of	Reclaimed Water Main Extension - Bamford Sports Complex and along University Dr between SW 36th Street and SW 30th Street	2020-21	0.00	0.20	\$1,615,000	\$610,000	\$0
Lee County Utilities	Fiesta Village Reclaimed Water Main Extension	2020-21	0.00	16.00	\$6,986,000	\$2,300,000	\$0
Davie, Town of	Reclaimed Water System Extension along SW 92nd Ave from SW 36th Ave to Griffin Rd	2021-22	0.00	1.00	\$2,000,000	\$800,000	\$0
Davie, Town of	Reclaimed Water System Extension along SW 30th St from 75th Ave to College Ave	2021-22	0.00	0.30	\$640,000	\$256,000	\$0
Cape Coral, City of ^a	Reclaimed Water Expansion: Cape Coral and Fort Myers interconnect Phase II under the Caloosahatchee River	2021-22	0.00	12.00	\$0	\$2,260,000	\$0
Palm Beach County Water Utilities	Palm Beach-Broward Interconnect Phase IA: South Reclaimed Water Transmission and System Extension (~3.6 miles of pipe) in southern Palm Beach County	2022-23	0.00	2.00	\$52,000,000	\$3,500,000	\$0
Palm Beach County Water Utilities ^b	Green Cay Wetlands 2 mgd Indirect Potable Reuse Project - water purification treatment plant, 2.3 miles purified water pipeline, and 4 surficial aquifer wells	2022-23	2.00	0.00	\$78,500,000	\$5,000,000	\$0
Cape Coral, City of	North 1 Reclaimed Water Main Extension (~7.5 miles of pipe), Phase 1A	2022-23	0.00	0.44	\$8,157,749	\$1,382,200	\$0
Bonita Springs Utilities, Inc. ^c	Reverse Osmosis Water Treatment Plant 4 mgd (Phase 3) Expansion - RO Membranes, Floridan Aquifer Wells 42, 49, 50, 52, 53 and 54, and Raw Water Piping	2022-23	4.00	0.00	\$19,100,000	\$7,168,990	\$0

Table A-1. Continued

Entity Name	Project Name	Contract FY	Quantity of water made available upon completion (mgd)	Reclaimed or Brackish Water distribution capacity (mgd)	Total Project Cost	FDEP (AWS or Coronavirus) or WPSTF Amount	District ad valorem/ WPSTF Amount
St. Lucie County BOCC	North County Reverse Osmosis Water Treatment Plant - Floridan Aquifer System Wells PW-2 and PW-3	2022-23	2.00	0.00	\$7,600,000	\$2,500,000	\$0
TOTAL			46.10	42.09	\$228,994,017	\$35,630,558	\$296,768
TOTAL FDEP and District Funding							\$35,927,326

- a. Total project costs are included in the FY2019-20 Cape Coral Interconnect Ph 1 project
 - b. This project uses FY2019-2020 FDEP AWS funding (\$53,940) and FY2022-2023 FDEP AWS funding (\$4,946,060).
 - c. This project uses FY2021-2022 FDEP/Coronavirus (\$1,488,990) and FY2022-2023 DEP AWS funding (\$5,680,000).
- mgd = million gallons per day; WPSTF = water protection and sustainability trust fund; IW = injection well; MG = million gallons; PW = production well; Coronavirus = Coronavirus State and Local Fiscal Recovery Funds

Table A-2. FY2019-2020 to FY2022-2023 Water Conservation Projects carried forward into FY2023-2024

Entity Name	Project Name	Contract FY	Quantity of water made available upon completion (mgd)	Total Project Cost	FDEP AWS or WPSTF Amount	District ad valorem/ WPSTF Amount
Florida Keys Aqueduct Authority	High Efficiency Toilet Rebate Program	2019-20	0.01	\$60,000	\$30,000	\$0
Miami-Dade Water & Sewer Department	Residential High Efficiency Toilet Rebate Project FY2021-2022	2020-21	0.02	\$76,712	\$15,000	\$15,000
Orange County Utilities	Waterwise Neighbor Program - Indoor and Outdoor Retrofits	2020-21	0.03	\$84,850	\$16,500	\$16,500
Broward County Water and Wastewater Services	High Efficiency Toilet Replacement Program	2020-21	0.01	\$60,000	\$12,000	\$12,000
Miami-Dade Water & Sewer Department	Residential High Efficiency Showerhead and Faucet Rebate Project FY2021-2022	2020-21	0.02	\$91,480	\$18,000	\$18,000
Mack Farm, Inc.	Mack Farms Hydrocyclone Recycled Water System	2020-21	0.05	\$460,000	\$92,000	\$92,000
Miami-Dade Water & Sewer Department ^a	Landscape Irrigation Rebate Project FY22/23	2021-22	0.03	\$51,000	\$25,500	\$0
Miami-Dade Water & Sewer Department ^a	Residential High Efficiency Toilet and Fixture Rebate Projects FY22/23	2021-22	0.01	\$55,000	\$25,900	\$0
West Palm Beach, City of ^a	Urban irrigation Efficiency Improvement Program	2021-22	0.02	\$78,350	\$39,175	\$0
Bonita Springs Utilities Inc. ^a	High-Efficiency Toilet Residential & Commercial Rebate Programs	2021-22	0.01	\$50,000	\$20,000	\$0
Vanderbilt Country Club ^a	Irrigation Control System Upgrade	2021-22	0.05	\$486,665	\$100,000	\$0
Broward County Resilient Environment Department, Natural Resources Division ^b	Conservation Pays High Efficiency Toilet Rebate on behalf of Broward Water Partnership	2022-23	0.02	\$100,000	\$50,000	\$0
Bonita Springs Utilities, Inc. ^b	Irrigation Residential Rebate Program	2022-23	0.13	\$20,000	\$8,000	\$0
Broward County Water and Wastewater Services (WWS) ^a	High Efficiency Toilet Replacement Credit Program	2022-23	0.02	\$60,000	\$25,500	\$0
Bonita Springs Utilities, Inc. ^b	High-Efficiency Toilet Rebate Program	2022-23	0.01	\$50,000	\$20,000	\$0
West Palm Beach, City of ^a	Community Water Conservation Strategies Phase IX - HET	2022-23	0.01	\$62,500	\$31,250	\$0
Broward County Resilient Environment Department, Natural Resources Division ^c	High Efficiency Toilet Retrofit Project - Low/moderate income	2022-23	0.00	\$20,000	\$10,000	\$0
Pelican's Nest Golf Club ^a	Pelican's Nest Golf Course Irrigation Retrofit	2022-23	0.17	\$2,025,000	\$100,000	\$0
Reflection Isles Master Association, Inc. ^a	Reflection Isles Irrigation Retrofit	2022-23	0.07	\$364,420	\$100,000	\$0
TOTAL			0.69	\$4,255,977	\$738,825	\$153,500
TOTAL FDEP and District Funding						\$892,325

a. Project using FY2019-2020 FDEP AWS funding.
 b. Project using FY2022-2023 FDEP AWS funding.
 c. Project using FY2020-2021 FDEP AWS funding.
 mgd = million gallons per day; HET = high efficiency toilet

Table A-3. Projects associated with an MFL prevention or recovery strategy for FY2023-2024 through FY2027-2028. (Note: All costs are subject to change until the FY2023-2024 Five-Year Capital Improvements Plan is approved by the SFWMD's Governing Board by February 2024, including development of FY2027-2028 project implementation costs.)

Projects	Project Implementation Costs ^a					5-Year Work Plan Cost Estimates
	FY2023-2024	FY2024-2025	FY2025-2026	FY2026-2027	FY2027-2028	
St. Lucie Estuary						
C-23/24 South Reservoir	\$20,000,000	\$82,100,000	\$140,000,000	\$140,000,000	\$140,000,000	\$522,100,000
Everglades						
CEPP Predecessor New Water: C-44/C-23 Interconnect (EAA Reservoir) ^{b, c}	\$10,000,000	\$26,000,000	\$0	\$0	\$0	\$36,000,000
EAA Storage Reservoir Conveyance Improvements and Stormwater Treatment Area ^d	\$158,620,879	\$112,200,000	\$122,700,000	\$124,800,000	\$145,000,000	\$663,320,879
CEPP North ^e	\$29,220,477	\$89,300,000	\$176,275,000	\$154,075,000	\$613,020,477	\$613,020,477
Caloosahatchee River						
Caloosahatchee River (C-43) West Basin Storage Reservoir	\$86,300,000	\$160,000,000	\$0	\$0	\$0	\$246,300,000
Lake Okeechobee						
Lake Okeechobee Watershed Restoration Project ^f	\$50,000,000	\$50,000,000 ^g	\$50,000,000 ^g	\$50,000,000 ^g	\$50,000,000 ^g	\$250,000,000
Loxahatchee River						
Loxahatchee River Watershed Restoration Project	\$15,000,000	\$2,218,130	\$58,662,078	\$64,662,078	\$85,464,109	\$226,006,395
Lake Okeechobee and Western Everglades						
CERP Restoration Project Planning	\$0	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$20,000,000
Taylor Slough						
C-111 South Dade -- S332 B/C Pump Station Replacement	\$10,000,000	\$60,000,000	\$60,100,000	\$26,100,000	\$0	\$156,200,000
Total	\$379,141,356	\$586,818,130	\$612,737,078	\$564,637,078	\$589,614,109	\$2,732,947,751

a. Project costs based on information contained in the draft FY2024-2028 SFWMD Five-Year Capital Improvement Plan.

b. The C-44/C-23 Interconnect project is associated with CEPP. It is listed under the Everglades MFL recovery strategy because it is a precursor project that must be completed first in order to provide the downstream benefits for the Everglades MFL water body.

c. Project is a component of CEPP.

d. Includes Reservoir Inflow Pump Station, Inflow Canal Reservoir/Stormwater Treatment Area (STA), A-2 STA, North New River and Miami Canal Improvements, and Bridges.

e. Includes the L-4 Levee Degrade/Pump Station, L-5 Canal Improvements, L-6 Diversion, S-8 Modifications, and Miami Canal Backfill.

f. Project is expected to provide new (recovered) water for the Lake Okeechobee MFL recovery strategy.

g. Funding contingent upon future state appropriations.

**APPENDIX B: PROJECTS ASSOCIATED WITH A BASIN MANAGEMENT ACTION
PLAN FOR FISCAL YEAR 2023-2024 THROUGH FISCAL YEAR 2027-2028**

Basin Management Action Plans (BMAPs) are the “blueprint” for restoring impaired waters by reducing pollutant loadings to meet allowable levels established by a total maximum daily load. In 2016, the Florida legislature amended Section 373.036(7)(b)8., F.S., to require the identification of projects in the Work Program that implement a BMAP or an MFL recovery or prevention strategy. The SFWMD’s Work Program historically has identified water resource development projects that support MFL recovery and prevention strategies but has not included specific descriptions of projects primarily intended to implement BMAPs. Consistent with Section 373.036(7)(b)8., F.S., and in a manner coordinated with the FDEP and all five water management districts, the SFWMD has included information for specific projects that implement a BMAP in **Table B-1**.

There are five regional adopted BMAPs within the District’s boundaries: Caloosahatchee Estuary (FDEP 2012b), Everglades West Coast (FDEP 2012a), Indian River Lagoon (FDEP 2013a), St. Lucie River and Estuary (FDEP 2013b), and Lake Okeechobee (FDEP 2014). Updated BMAPs for the St. Lucie River and Estuary, Caloosahatchee River and Estuary, and Lake Okeechobee were adopted in February 2020 (FDEP 2020a,b,c, respectively). **Table B-1** reflects BMAP projects planned costs for Fiscal Year 2023-2024 through Fiscal Year 2027-2028¹. Of the 43 total projects listed in this table, 12 projects are aligned with the St. Lucie River and Estuary BMAP, 7 projects are aligned with the Caloosahatchee River and Estuary BMAP, 24 projects are aligned with the Lake Okeechobee BMAP; and none are aligned with the Everglades West Coast or Indian River Lagoon BMAPs.

¹ BMAP projects that the SFWMD is implementing are aligned with the FDEP’s BMAP 2020 Updates for St. Lucie River and Estuary, Caloosahatchee River and Estuary, and Lake Okeechobee (FDEP, 2020a,b,c, respectively), and final *Florida Statewide Annual Report on Total Maximum Daily Loads, Basin Management Action Plans, Minimum Flows or Minimum Water Levels, and Recovery or Prevention Strategies* (FDEP 2018). Five-year (FY2023-2024 through FY2027-2028) cost estimates are shown as projections based on current BMAP-associated projects under contract by the SFWMD or based on prior year expenditure trends, and do not include salaries. FY2024-2025 through FY2027-2028 costs are contingent on future legislative funding and Governing Board approval of future fiscal year funding.

Table B-1. BMAP projects costs in dollars, excluding salaries, for FY2023-2024 through FY2027-2028.

(Note: All costs are from the FY2022-2023 Approved Five-Year Capital Improvements Plan and are subject to change until the District’s FY2023-2024 Five-Year Capital Improvements Plan is approved by February 2024, including development of FY2027-2028 project implementation costs.)

BMAP	Lead Entity	Partners	FDEP Project Number	Project Name	Project Type	FY2024	FY2025	FY2026	FY2027	FY2028	Project Total	Comments
STLU	Coordinating Agency	N/A	CA-01	Ten Mile Creek Water Preserve Area	Hydrologic Restoration	\$377,029	\$349,388	\$226,116	\$230,862	\$227,129	\$1,410,524	O&M costs only
CALO	Coordinating Agency	N/A	CA-01	C-43 West Basin Storage Reservoir	Hydrologic Restoration	\$87,738,290	\$162,267,890	\$5,431,328	\$5,014,350	\$5,043,086	\$265,494,944	-
OKEE	Coordinating Agency	FDEP/SFWM	CA-01	Brighton Valley Dispersed Water Management	Dispersed Water Management	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$15,000,000	-
STLU	Coordinating Agency	N/A	CA-02	Indian River Lagoon-South	Regional Stormwater Treatment	\$30,000,000	\$108,100,000	\$140,000,000	\$140,000,000	\$140,000,000	\$558,100,000	-
CALO	Coordinating Agency	N/A	CA-02	Lake Hicpochee Storage and Shallow Hydrologic Enhancement, Phase 1	Hydrologic Restoration	\$180,760	\$182,267	\$182,787	\$178,324	\$178,875	\$903,013	O&M costs only
STLU	Coordinating Agency	N/A	CA-03	Adams-Russakis Ranch Water Management Alternative	Dispersed Water Management	\$57,500	\$57,500	\$57,500	\$57,500	\$57,500	\$287,500	O&M costs only
CALO	Coordinating Agency	N/A	CA-03	Lake Hicpochee Storage and Shallow Hydrologic Enhancement Expansion	Hydrologic Restoration	\$11,000,000	\$0	\$0	\$23,000,000	\$-	\$34,000,000	-
STLU	Coordinating Agency	N/A	CA-04	C-23/24 Interim Storage Section C Water Farm	Dispersed Water Management	\$41,850	\$42,200	\$42,200	\$42,200	\$42,200	\$210,650	-
CALO	Coordinating Agency	N/A	CA-04	BOMA Flow Equalization Basin	Hydrologic Restoration	\$10,000,000	\$35,100,000	\$11,100,000	\$-	\$-	\$56,200,000	-
OKEE	Coordinating Agency	N/A	CA-04	Lakeside Ranch – Phase II	Stormwater Treatment Area	\$558,594	\$558,584	\$563,243	\$571,710	\$549,383	\$2,801,514	O&M costs only
STLU	Coordinating Agency	N/A	CA-05	Bluefield Grove Water Farm	Dispersed Water Management	\$4,463,389	\$4,463,389	\$4,463,389	\$4,463,389	\$4,463,389	\$22,316,945	-
CALO	Coordinating Agency	N/A	CA-05	C-43 Water Quality Treatment and Testing Facility, Phase II - Test Cells	Study	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000	-
OKEE	Coordinating Agency	FDEP/SFWM	CA-05	El Maximo Ranch Dispersed Water Management (previously Latt Maxcy)	Dispersed Water Management	\$3,863,204	\$3,863,204	\$3,863,204	\$3,863,204	\$3,863,204	\$19,316,020	-

Table B-1. Continued.

BMAP	Lead Entity	Partners	FDEP Project Number	Project Name	Project Type	FY2024	FY2025	FY2026	FY2027	FY2028	Project Total	Comments
STLU	Coordinating Agency	N/A	CA-06	Bull Hammock Ranch Water Management Alternative	Dispersed Water Management	\$28,500	\$28,500	TBD	TBD	TBD	\$57,000	-
CALO	Coordinating Agency	N/A	CA-06	C-43 West Basin Storage Reservoir Water Quality Component	Constructed Wetland Treatment	\$7,000,000	\$0	TBD	TBD	TBD	\$7,000,000	-
STLU	Coordinating Agency	N/A	CA-07	Spur Land and Cattle	Dispersed Water Management	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000	-
CALO	Coordinating Agency	N/A	CA-07	Mudge Ranch	Dispersed Water Management	\$47,500	TBD	TBD	TBD	TBD	\$47,500	-
STLU	Coordinating Agency	N/A	CA-08	Caulkins Water Farm	Dispersed Water Management	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	TBD	\$22,000,000	-
STLU	Coordinating Agency	N/A	CA-09	Alderman-Deloney Ranch	Dispersed Water Management	\$21,000	\$21,000	\$21,000	\$21,000	\$21,000	\$105,000	-
STLU	Coordinating Agency	N/A	CA-10	C-23/24 District Lands Hydrologic Enhancement Project	Dispersed Water Management	\$11,450,000	\$48,582	\$48,625	\$48,670	\$48,717	\$11,644,594	-
OKEE	Coordinating Agency	N/A	CA-21	Brady Ranch Flow Equalization Basin and Aquifer Storage and Recovery	Hydrologic Restoration	\$2,000,000	\$0	\$6,068,500	\$6,068,500	TBD	\$14,137,000	-
OKEE	Coordinating Agency	N/A	CA-22	Grassy Island Flow Equalization Basin and Aquifer Storage and Recovery	Hydrologic Restoration	\$4,430,278	\$24,396,063	\$24,396,064	\$24,396,064	\$711,016	\$78,329,485	-
OKEE	SFWMMD	FDEP/USACE	SFWMMD-01	Taylor Creek Stormwater Treatment Area Project	Stormwater Treatment Area	\$173,273	\$173,273	\$173,273	\$173,273	\$173,273	\$866,365	Cost estimates based on average annual O&M costs for FY2017-18 through FY2019-20.

Table B-1. Continued.

BMAP Lead Entity	Partners	FDEP Project Number	Project Name	Project Type	FY2024	FY2025	FY2026	FY2027	FY2028	Project Total	Comments
OKEE	SFWMD	FDEP/USACE	SFWMD-02 Nubbin Slough Stormwater Treatment Area Project	Stormwater Treatment Area	\$172,467	\$172,467	\$172,467	\$172,467	\$172,467	\$862,335	Cost estimates based on average annual O&M costs for FY2014-2015 through FY2016-2017.
OKEE	SFWMD	FDEP/USACE	SFWMD-03 Lakeside Ranch – Phase I	Stormwater Treatment Area	\$491,201	\$518,417	\$492,587	\$499,813	\$509,240	\$2,511,258	O&M costs only
OKEE	SFWMD	USACE	SFWMD-05 Kissimmee River Restoration Project b	Hydrologic Restoration	\$774,334	\$1,036,397	\$900,910	\$785,660	\$686,910	\$4,184,211	O&M, monitoring, and evaluation costs Phase I O&M costs only. No future legislative funding for Phase II.
OKEE	SFWMD	FDEP	SFWMD-06 Rolling Meadows Wetland Restoration – Phase I	Wetland Restoration	\$8,670	\$8,670	\$8,670	\$8,670	\$8,670	\$43,350	O&M, monitoring, and evaluation costs Phase I O&M costs only. No future legislative funding for Phase II.
OKEE	SFWMD	FDEP/SFWMD	SFWMD-10 Lykes West Waterhole	Dispersed Water Management	\$661,155	\$683,375	\$705,595	\$727,815	\$750,035	\$3,527,975	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-11 Rafter T Ranch	Dispersed Water Management	\$162,736	\$162,736	TBD	TBD	TBD	\$325,472	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-12 Buck Island Ranch	Dispersed Water Management	\$554,445	\$554,445	\$554,445	\$554,445	\$554,445	\$2,772,225	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-13 Dixie West	Dispersed Water Management	see SFWMD-14	\$0	-				
OKEE	SFWMD	FDEP/SFWMD	SFWMD-14 Dixie Ranch	Dispersed Water Management	\$198,000	198000	198000	\$198,000	\$198,000	\$990,000	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-15 Dixie Ranch	Dispersed Water Management	see SFWMD-14	-	-				
OKEE	SFWMD	FDEP/SFWMD	SFWMD-16 Eagle Haven Ranch (formerly Lost Oak Ranch)	Dispersed Water Management	\$60,000	60000	60000	\$60,000	\$60,000	\$300,000	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-17 Willaway Cattle and Sod	Dispersed Water Management	0	0	0	0	0	\$0	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-18 XL Ranch (Lightsey)	Dispersed Water Management	\$157,550	\$157,550	\$157,550	\$157,550	\$157,550	\$787,750	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-19 Abington Preserve (formerly Triple A Ranch)	Dispersed Water Management	\$30,000	\$15,000	TBD	TBD	TBD	\$45,000	-

Table B-1. Continued.

BMAP	Lead Entity	Partners	FDEP Project Number	Project Name	Project Type	FY2024	FY2025	FY2026	FY2027	FY2028	Project Total	Comments
OKEE	SFWMD	FDEP/SFWMD	SFWMD-20	Llanos Ranches (formerly La Hamaca, Blue Head Ranch)	Dispersed Water Management	\$361,200	\$361,200	\$361,200	TBD		\$1,083,600	-
OKEE	SFWMD	FDEP/SFWMD	SFWMD-21	Nicodemus Slough	Dispersed Water Management	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$18,000,000	-
OKEE	SFWMD	USACE	SFWMD-22	Kissimmee River Headwaters Revitalization b	Hydrologic Restoration	see SFWMD-05	\$0	-				
OKEE	SFWMD	FDEP/SFWMD	SFWMD-23	Buck Island Ranch Wildlife Management Area (NE-PES-2)	Dispersed Water Management	See SFWMD-12	\$0	-				
STLU	Troup-Indiantown WCD	SFWMD/USACE	TI-04	C-44 Reservoir Area	Hydrologic Restoration	\$3,088,518	\$3,166,026	\$3,188,474	\$3,175,920	\$3,173,406	\$15,792,344	O&M costs only
STLU	Troup-Indiantown WCD	SFWMD/USACE	TI-05	C-44 Stormwater Treatment Area	Stormwater Treatment Area	\$1,997,778	\$2,119,246	\$2,122,424	\$2,125,713	\$2,001,121	\$10,366,282	O&M costs only
Totals						\$195,399,211	\$362,115,369	\$218,809,551	\$229,845,099	\$171,400,616	\$1,177,569,856	

- a. Key to Abbreviations: CA – Coordinating Agencies – South Florida Water Management District, Florida Department of Environmental Protection, and Florida Department of Environmental Protection; FDEP – Florida Department of Environmental Protection; N/A – not applicable; NE-PES-1 – Northern Everglades Payment for Environmental Services Solicitation 1; NE-PES-2 – Northern Everglades Payment for Environmental Services Solicitation 2; OKEE – Lake Okeechobee; SFWMD – South Florida Water Management District; SLU – St. Lucie River and Estuary; TBD – to be determined; USACE – United States Army Corps of Engineers; and WCD – Water Control District.
- b. The Kissimmee River Restoration Project (SFWMD-05) includes the Lower Kissimmee Basin (Highlands, Glades, and Okeechobee counties) and the Upper Kissimmee Basin – Kissimmee River Headwaters Revitalization Project (Osceola and Polk counties) (SFWMD-22); SFWMD-22 project costs are included in SFWMD-05.

LITERATURE CITED²

- CFWI. 2020. *2020 Central Florida Water Initiative Regional Water Supply Plan*. Available at: <https://www.cfwewater.com>.
- FDEP. 2012a. *Final Basin Management Action Plan for the Implementation of Total Maximum Daily Loads for Dissolved Oxygen Adopted by the Florida Department of Environmental Protection in the Everglades West Coast Basin*. Prepared by the Florida Department of Environmental Protection, Tallahassee, FL, with participation from the Everglades West Coast Basin Technical Stakeholders. December 2012.
- FDEP. 2012b. *Final Basin Management Action Plan for the Implementation of Total Maximum Daily Loads for Nutrients Adopted by the Florida Department of Environmental Protection in the Caloosahatchee Estuary Basin*. Prepared by the Florida Department of Environmental Protection, Tallahassee, FL, with participation from the Caloosahatchee Estuary Basin Technical Stakeholders. December 2012.
- FDEP. 2013a. *Final Basin Management Action Plan for the Implementation of Total Maximum Daily Loads for Nutrients Adopted by the Florida Department of Environmental Protection in the Indian River Lagoon Basin, Central Indian River Lagoon*. Prepared by the Florida Department of Environmental Protection, Tallahassee, FL, with participation from the Central Indian River Lagoon Stakeholders. May 2013.
- FDEP. 2013b. *Final Basin Management Action Plan for the Implementation of Total Maximum Daily Loads for Nutrients and Dissolved Oxygen by the Florida Department of Environmental Protection in the St. Lucie River and Estuary Basin*. Prepared by the Florida Department of Environmental Protection, Tallahassee, FL, with participation from the St. Lucie River and Estuary Basin Technical Stakeholders. May 2013.
- FDEP. 2014. *Final Basin Management Action Plan for the Implementation of Total Maximum Daily Loads for Total Phosphorus by the Florida Department of Environmental Protection in Lake Okeechobee*. Prepared by the Florida Department of Environmental Protection, Tallahassee, FL, with participation from the Lake Okeechobee Stakeholders. December 2014.
- FDEP. 2018. *Florida Statewide Annual Report on Total Maximum Daily Loads, Basin Management Action Plans, Minimum Flows or Minimum Water Levels, and Recovery or Prevention Strategies*. Prepared by the Florida Department of Environmental Protection, Division of Environmental Assessment and Restoration and Office of Water Policy, Tallahassee, FL. June 2018.
- SFWMD. 2018a. *2018 Lower East Coast Water Supply Plan Update*. South Florida Water Management District, West Palm Beach, FL. November 2018.
- SFWMD. 2018b. *Technical Document to Support Reevaluation of the Minimum Flow Criteria for the Caloosahatchee River Estuary*. South Florida Water Management District, West Palm Beach, FL. January 30, 2018.
- SFWMD. 2019. *2019 Lower Kissimmee Basin Water Supply Plan Update*. South Florida Water Management District, West Palm Beach, FL. December 2019.
- SFWMD. 2021. *2021 Upper East Coast Water Supply Plan Update*. South Florida Water Management District, West Palm Beach, FL. November 2021.
- SFWMD. 2022. *2022 Lower West Coast Water Supply Plan Update*. South Florida Water Management District, West Palm Beach, FL. December 2022.

²All the FDEP BMAPs and associated annual progress reports are available at www.dep.state.fl.us/water/watersheds/bmap.htm. The Final Statewide Annual Report (FDEP 2020) is available at www.floridadep.gov/star.

MEMORANDUM

TO: Governing Board Members

FROM: Lawrence Glenn, Water Resources Division

DATE: October 12, 2023

SUBJECT: 2023 Priority Water Body List and Schedule

Agenda Item Background:

Each year, the water management districts are statutorily required to submit a list and schedule to the Florida Department of Environmental Protection prioritizing water bodies for developing minimum flows and minimum water levels (MFLs) and water reservations. MFLs define the point at which further withdrawals would cause significant harm to the water resources or the ecology of the area. Water reservations protect the water needed for fish and wildlife or public health and safety from being allocated to consumptive uses. The District also uses a third water resource protection tool: restricted allocation areas (RAAs), which are defined geographic areas where consumptive use allocations from specific water resources are limited. The proposed 2023 Priority Water Body List and Schedule includes the Indian River Lagoon - South (IRL-S) CERP project natural lands project component and the CERP Lake Okeechobee Watershed Restoration Project (LOWRP) as well as continued development of the C 43 Reservoir water control plan (Draft Project Operations Manual) in support of the reservoir's prospective water reservation.

Additional Item Background:

Core Mission and Strategic Priorities:

The technical processes to establish legal protection of water for the IRL-S natural lands project component and LOWRP along with developing the water control plan for the C 43 Reservoir are part of the District's core mission and strategic priorities to protect natural systems. The Water Resources Development Act of 2000 (WRDA 2000) and Section 373.470(3)(c), Florida Statutes, require the South Florida Water Management District (SFWMD or District) to protect the water made available for the natural system resulting from a CERP project. As the legislatively delegated authority for the State's water protections, the SFWMD utilizes its regulatory framework to protect increased water availability. The SFWMD has a variety of regulatory mechanisms at its disposal, including its current consumptive use permitting criteria and the ability to adopt new water reservations or restricted allocation areas when appropriate.

Funding Source:

Staff resources, funded with ad valorem sources, are used to develop scientifically defensible documentation that supports establishment of water resource protection for waterbodies.

Staff Contact and/or Presenter:

James Beerens, (561) 682-2028, jabeeren@sfwmd.gov
Seán Sculley, (561) 682-6109, ssculley@sfwmd.gov

ATTACHMENTS:

Resolution No. 2023 - 1006

Attachment A

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize submission of the proposed 2023 Priority Water Body List and Schedule for Minimum Flows and Levels and Water Reservations to the Florida Department of Environmental Protection for review and approval pursuant to Section 373.042(3), Florida Statutes; providing an effective date.

WHEREAS, the South Florida Water Management District (District) is required by Section 373.042(3), Florida Statutes (F.S.), to submit an annual update of the Priority Water Body List for Minimum Flows and Levels and Water Reservations that reflects the District's water resource management priorities, the importance of the waters to the region, and the existence of, or potential for, significant harm to the water resources; and

WHEREAS, the water management districts are required to forward the Priority Water Body List and Schedule to the Florida Department of Environmental Protection for its review and approval; and

WHEREAS, the proposed 2023 Priority Water Body List and Schedule for Minimum Flows and Levels and Water Reservations considers the differing resource issues addressed by minimum flows and levels and water reservations based on staffing and technical resources to ensure successful completion of rulemaking.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves transmittal of the 2023 Priority Water Body List and Schedule for Minimum Flows and Levels and Water Reservations to the Florida Department of Environmental Protection for review and approval pursuant to Section 373.042(3), F.S.

Section 2. The 2023 Priority Water Body List and Schedule for Minimum Flows and Levels and Water Reservations is attached hereto and made a part hereof.

Section 3. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 12th day of October, 2023.

South Florida Water Management District 2023 Priority Water Body List and Schedule

Minimum Flows and Minimum Levels:

- None at this time

Water Reservations/Restricted Allocation Areas:

2022 - 2024 – Water Control Plan for the CERP C-43 Reservoir

- Continue development of a Preliminary Project Operations Manual (Water Control Plan) for the C-43 Reservoir in coordination with federal and state partners.
- Rulemaking is not required currently.

2022 - 2025 – Water Resource Protection for the CERP Indian River Lagoon – South Project Natural Lands Component

2023 - 2025 – Water Reservation or Restricted Allocation Area Rule for the CERP Lake Okeechobee Watershed Restoration Project

MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, Engineering, Construction & Modeling

DATE: October 12, 2023

SUBJECT: C-51 Reservoir Phase 1 Operations and Maintenance Amended Agreement, Palm Beach County

Agenda Item Background:

As part of the Alternative Water Supply program, in 2017 the District entered into an agreement with Palm Beach Aggregates, LLC. (PBA) to operate and maintain the C-51 Reservoir Phase 1, which is approximately 14,000 acre-feet of water storage and will be hydraulically connected to the South Florida Water Management District L-8 Flow Equalization Basin, via structure NR-51C. The 2017 agreement is amended to add operation and maintenance of structure NR-51C.

The C-51 Phase 1 Reservoir Project will consist of a reservoir and conveyance structures to provide water supply and water management benefits to participating water supply utilities and will also provide environmental benefits by reducing freshwater discharges to tide.

The C-51 Phase 1 Reservoir Project is dependent upon the South Florida Water Management District's operation of its regional system and needs to be operated and maintained in a synchronized manner with the L-8 Flow Equalization Basin.

To fully accomplish the goals of the C-51 Reservoir Phase 1 Project, the District will be conveyed approximately 4.246 acres contained within the footprint of the C-51 Reservoir Phase 1 Project that are adjacent to other District lands within the Project.

Improvements to certain of the District's facilities are necessary to fully operate the Phase 1 Project; the Phase 1 Project may be operated on an interim basis and PBA will pay for the necessary improvements to the District's facilities prior to commencement of full operations.

The improvements to the District's facilities includes a permanent structure for flow through the L-39 located between WCA 1 and WCA 2A immediately west of S-39.

The South Florida Water Management District will operate, maintain, repair, replace, and rehabilitate the Phase 1 Project and other South Florida Water Management District facilities that benefit the Phase 1 Project, provided that the owner of the Project fully covers the District's costs in providing such services.

Additional Item Background:

Core Mission and Strategic Priorities:

This project supports the District's core missions of flood control, water quality, and ecosystem restoration.

Staff Contact and/or Presenter:

Lucine Dadrian, ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2023-1007](#)

[Location Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize negotiating and entering into an amended Operation and Maintenance Agreement with Palm Beach Aggregates, LLC. for Phase 1 of the C-51 Reservoir Project (Contract No. 4600003623).

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into an amended Operation and Maintenance Agreement with Palm Beach Aggregates, LLC. for Phase 1 of the C-51 Reservoir Project (Contract No. 4600003623);

WHEREAS, The C-51 Reservoir Project will consist of a reservoir and conveyance structure to provide water supply and water management benefits to participating water supply utilities and will also provide environmental benefits by reducing freshwater discharges to tide; and Phase 1 of the C-51 Reservoir Project will provide approximately 14,000 acre-feet of water storage and will hydraulically connect to the South Florida Water Management District L-8 Flow Equalization Basin, via structure NR-51C;

WHEREAS, Phase 1 of the C-51 Reservoir Project is dependent upon the South Florida Water Management District's operation of its regional system and needs to be operated and maintained in a synchronized manner with the L-8 Flow Equalization Basin;

WHEREAS, it is appropriate that the South Florida Water Management District operate, maintain, repair, replace, and rehabilitate the Phase 1 Project and other South Florida Water Management District facilities that benefit the Phase 1 Project, provided that the owner of the Project fully covers the District's costs in providing such services;

WHEREAS, to fully accomplish the goals of the Phase 1 Project, the District will be conveyed approximately 4.246 acres, in fee, contained within the footprint of the Phase 1 Project that are adjacent to other District lands within the Phase 1 Project;

WHEREAS, improvements to certain of the District's facilities are necessary to fully operate the Phase 1 Project;

WHEREAS, the Phase 1 Project may be operated on an interim basis and PBA will pay for the necessary improvements to the District's facilities prior to commencement of full operations;

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes negotiating and entering into an amended Operation and Maintenance Agreement with Palm Beach Aggregates, LLC for operations of Phase 1 of the C-51 Reservoir Project (Contract No. 4600003623), which includes conveyance of fee title to the District of approximately 4.246 acres within the Phase 1 area of the C-51 Reservoir Project, and payment by PBA for the necessary improvements to the WCA Facilities prior to commencing full operations of the Phase 1 Project.

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 12th day of October, 2023.

C-51 Reservoir Location



Presenter: Lucine Dadrian 2

MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, Engineering, Construction & Modeling

DATE: October 12, 2023

SUBJECT: Amendment to Bridge Inspection Services

Agenda Item Background:

As part of the District's Operations and Maintenance Capital Improvement Plan, the Bridge Inspection Services contract supports access to the District's infrastructure by providing bridge inspections to identify deficiencies, as well as load rating analyses, for District owned bridges that are not inspected through the Florida Department of Transportation (FDOT) inspection program. This program supports the continuing maintenance and operations of the District's structures by extending the useful life of our access bridges.

The Bridge Inspection Services contract was executed on September 24, 2019 with TranSystems Corporation Consultants in the amount of \$149,999 for 5 years. This contract was issued as a piggyback on FDOT's Contract #C9S64 for Bridge Inspection Continuing Services Contract. Amendment No. 1 was executed on August 3, 2022 for an additional \$100,000. The expenditures for each year have increased due to additional bridge inspections and load ratings to support operations and maintenance activities and design and construction projects. Staff is seeking authorization for another amendment to the existing Bridge Inspection Services contract to increase the amount by \$100,000.

Additional Item Background:

Core Mission and Strategic Priorities:

The Bridge Inspection Services contract supports the District's core missions of Flood Control, Water Supply, Water Quality, and Ecosystem Restoration.

Staff Contact and/or Presenter:

Lucine Dadrian, ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2023 - 1008](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize an amendment to the existing Bridge Inspection Services contract to increase the amount by \$100,000 for TranSystems Corporation Consultants, for which Ad Valorem and dedicated funds are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004049)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize an amendment to the existing Bridge Inspection Services contract to increase the amount by \$100,000 for TranSystems Corporation Consultants.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes an amendment to the existing Bridge Inspection Services contract to increase the amount by \$100,000 for TranSystems Corporation Consultants, of which Ad Valorem and dedicated funds are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004049)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 12th day of October, 2023.

MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, Engineering, Construction & Modeling

DATE: October 12, 2023

SUBJECT: Okeechobee Field Station Expansion and Relocation Project

Agenda Item Background:

As part of the Everglades Restoration Program, the Okeechobee Field Station Expansion and Relocation Project, is located in Okeechobee County. The facility will support restoration projects such as C-44 Reservoir and STA, C-23/24 North and South Reservoirs and STA, C-25 Reservoir and STA, LOCAR Reservoir, and ASR facilities as well as critical flood control works. The project also consists of the design and construction of a new facility that combines the Okeechobee Field Station, Okeechobee Service Center, Water Quality Lab, SCADA, alternate Emergency Operations Center, and offices for Florida Fish and Wildlife Conservation Commissions South Region Statewide Nuisance Alligator Program. The new facility will be relocated to a District-owned parcel in Okeechobee County. The existing field station has reached the end of its useful life and requires replacement with facilities that meet present code requirements and expanded facility needs. The existing Service Center is operated in a leased facility and inclusion of the Service Center will allow the services to be provided from a District owned facility.

The new facility will include office space, fleet, structure maintenance, canal maintenance, electrical and SCADA service bays, water quality lab, emergency generator, alternate Emergency Operations Center and back up control center, fueling facility, vehicle wash area, chemical storage, microwave tower and shelter, helipad, parking areas, and associated utilities. This facility will consolidate and centrally locate the works and services provided in support of the District's mission through the combined efforts of planning, operations and maintenance, community and government relations, land management, regulation and in-house construction.

The use of the design-build procurement method allows the District to work in collaboration with a Design-Builder from the conceptual phase through construction of the new facility. The original design-build contract with PCL Construction Services, Inc. was approved at the March 2020 Governing Board meeting. The design progressed to the intermediate level, and contract negotiations for the stipulated price were not successful. The contract was terminated for convenience, and the District has negotiated with the second bidder from the request for proposal process, State Contracting and Engineering Corporation, to provide design services for 90% and 100% deliverables.

Additional Item Background:

Core Mission and Strategic Priorities:

The Okeechobee Field Station Relocation Project supports the District's core missions of flood control, water supply, water quality, and ecosystem restoration.

Funding Source:

Dedicated funds (Land Acquisition Trust Fund).

Staff Contact and/or Presenter:

Lucine Dadrian, P.E., ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2023-1009](#)

[Location Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 270-day contract for Phase I of the design/build contract for the Okeechobee Field Station Relocation Project, subject to successful negotiations with State Contracting and Engineering Corporation, for the 90% facility design, 100% design of utilities, roadways, and microwave tower packages, and the stipulated price proposal in an amount not to exceed \$3,925,544, for which \$3,925,544 in dedicated funds (Land Acquisition Trust Fund) is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets, providing an effective date. (Contract No. 4600004857)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into a 270-day contract with State Contracting and Engineering Corporation, for the Phase I of the design/build contract for the Okeechobee Field Station Relocation Project; and

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a 270-day contract for Phase I of the design/build contract for the Okeechobee Field Station Relocation Project, subject to successful negotiations with State Contracting and Engineering Corporation, for the 90% facility design, 100% design of utilities, roadways, and microwave tower packages, and the stipulated price proposal for the Okeechobee Field Station Relocation Project, in an amount not to exceed \$3,925,544, for which \$3,925,544 in dedicated funds (Land Acquisition Trust Fund) funds are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004857)

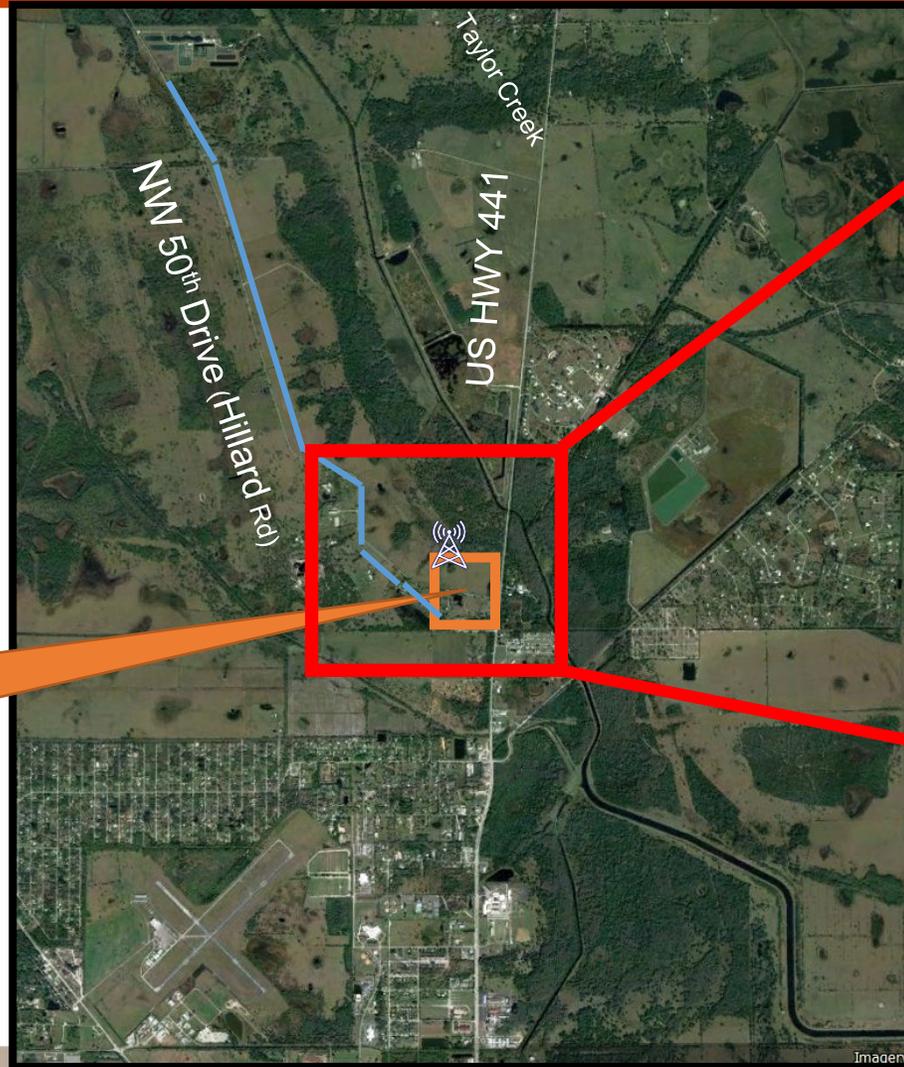
Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 12th day of October, 2023.

Location Map



Future
Okeechobee
Field Station



MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, Engineering, Construction & Modeling

DATE: October 12, 2023

SUBJECT: Okeechobee Field Station Grassy Island Communications Tower Project

Agenda Item Background:

As part of the Everglades Restoration Program, the Grassy Island Communications Tower project, located in Okeechobee County, supports the future Okeechobee Field Station expansion and relocation project. The project includes construction of a 280-ft self-supporting tower, communications facility, 4 miles of fiber optic, and communication equipment. The existing Okeechobee Field Station property is no longer a viable site for the replacement and expansion required to accommodate the District's needs as well as permitting issues to replace obsolete facilities and tower.

This project supports the District's flood control system, restoration projects existing and future build outs, and loops the tower into the microwave communication system. The communication system provides a connection between District facilities and infrastructure using industry standard technology allowing the Operations Control Room staff to remotely operate pump stations and water control structures. This infrastructure also supports the future emergency management backup facility at the new field station. With the relocation of the field station, a tower near the new facility will need to be built to connect the new field station into the microwave loop.

Expert Construction Managers, Inc., the lowest responsive and responsible bidder for the tower, communications facility and fiber is recommended for award. In accordance with District policy and consistent with state law for Request for Bids (RFB) procurements, this item was competitively bid through a sealed bid process. The bid opening for this project was on September 27, 2023.

The communication equipment purchase, installation and implementation services will be procured through a separate contract with AVIAT US, Inc. This contract will procure the services for the equipment and field construction of infrastructure to support the District's Wide Area Network microwave communications systems, radio frequency supervisory control and data acquisition, Information Technology systems, and support District IT sub-systems required for regular critical District functions and for emergency management. These services will be procured using the National Association of State Procurement Officers ValuePoint Master Agreement Number 00318 for "Cooperative Purchasing Agreement Solicitation for Public Safety Communications Products, Services and Solutions".

Additional Item Background:

Core Mission and Strategic Priorities:

This project supports the District's core mission of flood control, water supply, water quality, ecosystem restoration, and emergency management.

Funding Source:

Dedicated funds (Land Acquisition Trust Fund)

Staff Contact and/or Presenter:

Lucine Dadrian, P.E. ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2023-1010](#)

[Resolution No. 2023-1011](#)

[Location Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 340-day contract with Expert Construction Managers, Inc., the lowest responsive and responsible bidder, for the Okeechobee Field Station Grassy Island Communications Tower, in the amount of \$5,100,000, for which \$4,800,000 in dedicated funds (Land Acquisition Trust Fund) is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets, providing an effective date. (Contract No. 4600004865)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into a 340-day contract with Expert Construction Managers, Inc., for the Okeechobee Field Station Grassy Island Communications Tower, in the amount of \$5,100,000.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a contract with Expert Construction Managers, Inc. for the Okeechobee Field Station Grassy Island Communications Tower, in the amount of \$5,100,000 for which \$4,800,000 in dedicated funds (Land Acquisition Trust Fund) funds are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004865)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 12th day of October, 2023

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 608-day contract with Aviat US, Inc., for the Okeechobee Field Station Grassy Island Microwave Communications Tower Wide Area Network MW System Field Construction and Reconfiguration, using the National Association of State Procurement Officers (NASPO) ValuePoint Master Agreement Number 00318 for “Cooperative Purchasing Agreement Solicitation for Public Safety Communications Products, Services and Solutions” in an amount not to exceed \$2,820,699, of which \$2,000,000 in dedicated funds (Land Acquisition Trust Fund) are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets, providing an effective date. (Contract No.4600004854)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into a 608-day contract with Aviat US, Inc., for the Okeechobee Field Station Grassy Island Microwave Communications Tower Wide Area Network MW System Field Construction and Reconfiguration, in the amount Not to Exceed \$2,820,699.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a contract with Aviat US, Inc. for the Okeechobee Field Station Grassy Island Microwave Communications Tower Wide Area Network MW System Field Construction and Reconfiguration, in an amount not to exceed \$2,820,699 for which \$2,000,000 in dedicated funds (Land Acquisition Trust Fund) funds are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004854)

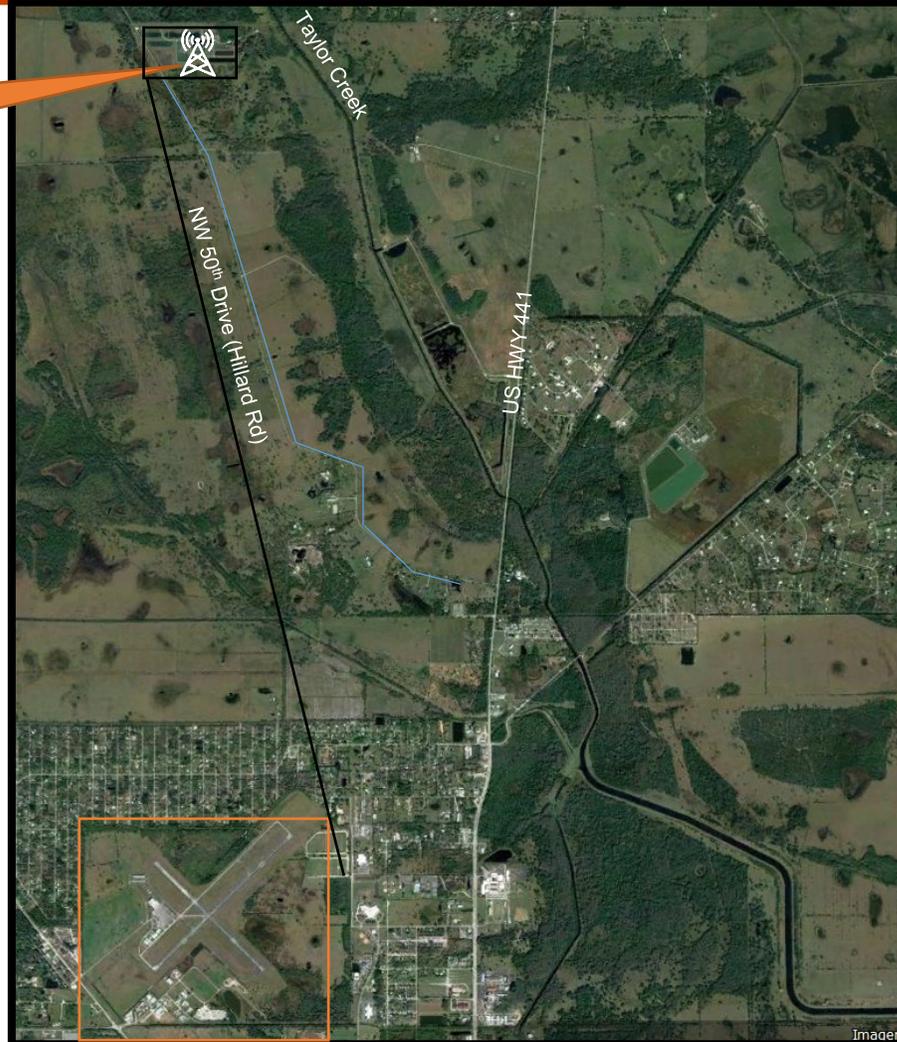
Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 12 day of October, 2023.

Location Map



Site



MEMORANDUM

TO: Governing Board Members

FROM: Rich Virgil, Field Operations Division

DATE: October 12, 2023

SUBJECT: G-370 and G-372 Pump Station Pump Overhaul Project, Palm Beach County

Agenda Item Background:

As part of the Operations and Maintenance Capital Improvement Plan, the G-370 and G-372 Pump Station Pump Overhaul Project, located in Palm Beach County, is part of the annual Operations and Maintenance Pump and Engine Overhaul Program. District staff will perform the removal and installation of the pumps, and the contractor will perform the pump refurbishment at their offsite facility. These pump stations are the inflow pump stations for STA 3/4, providing water quality improvement for stormwater runoff prior to discharge into the Central Everglades.

The G-370 and G-372 pump stations were constructed in 2004 and deficiencies were found during a recent inspection conducted under the District's Structure Inspection Program indicating the need for the refurbishment. The purpose of the project is to overhaul seven Flowserve Corp. vertical axial flow pumps each rated at 925 cubic feet per second. Carter & VerPlanck is the Authorized Representative of Flowserve Corp who is the Original Equipment Manufacturer; therefore, this contract will be executed through a special procurement under Section 155-6, South Florida Water Management District's Policies and Procedures. This policy provides that licensing, warranty, compatibility requirements that limit the selection to the manufacturer, including purchases of parts, repairs, or maintenance services for field equipment from the original equipment manufacturer, seller, or authorized repair facility (e.g. pumps generators, and specialized field equipment) are exempt from competition.

This project will refurbish one pump in the first fiscal year, two pumps in the second fiscal year, two pumps in the third fiscal year, and two pumps in the fourth fiscal year. Each refurbishment will take place during the dry season, with an estimated 4-6 months out of service. The project efforts include replacement and/or refurbishment of all major components to ensure an additional 20 years of uninterrupted service; increased pump efficiency; and ensures continued reliability of the pump stations to perform their intended functions by reducing the potential for a catastrophic failure of the pumping units.

Additional Item Background:

Core Mission and Strategic Priorities:

The G-370 and G-372 Pump Station Pump Overhaul Project supports the District's missions of flood control, water supply, water quality and ecosystem restoration.

Staff Contact and/or Presenter:

Rich Virgil, rvirgil@sfwmd.gov, 561-682-6759

ATTACHMENTS:

Resolution No. 2023-1012

Backup Presentation

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2023 - 10XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 1275 day contract with Carter & VerPlanck / DXP for the Pump Station G-370 and Pump Station G-372 925 cfs Pump Overhaul Project, for a contract amount not to exceed \$6,630,000, for which \$1,060,000 of Ad Valorem funds is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004867)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate and in the public interest to authorize entering into a contract with Carter & VerPlanck / DXP, the Authorized Representative of Flowserve Corp. (the original equipment manufacturer) for the refurbishment of three 925 cfs pumps at Pump Station G-370 and four 925 cfs pumps at Pump Station G-372, for a contract amount Not to Exceed \$6,630,000.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a contract for the refurbishment of three pumps at Pump Station G-370 and four pumps at Pump Station G-372, for an amount not to exceed \$6,630,000 for which \$1,060,000 of Ad Valorem funds is budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004867)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 12th day of October, 2023.

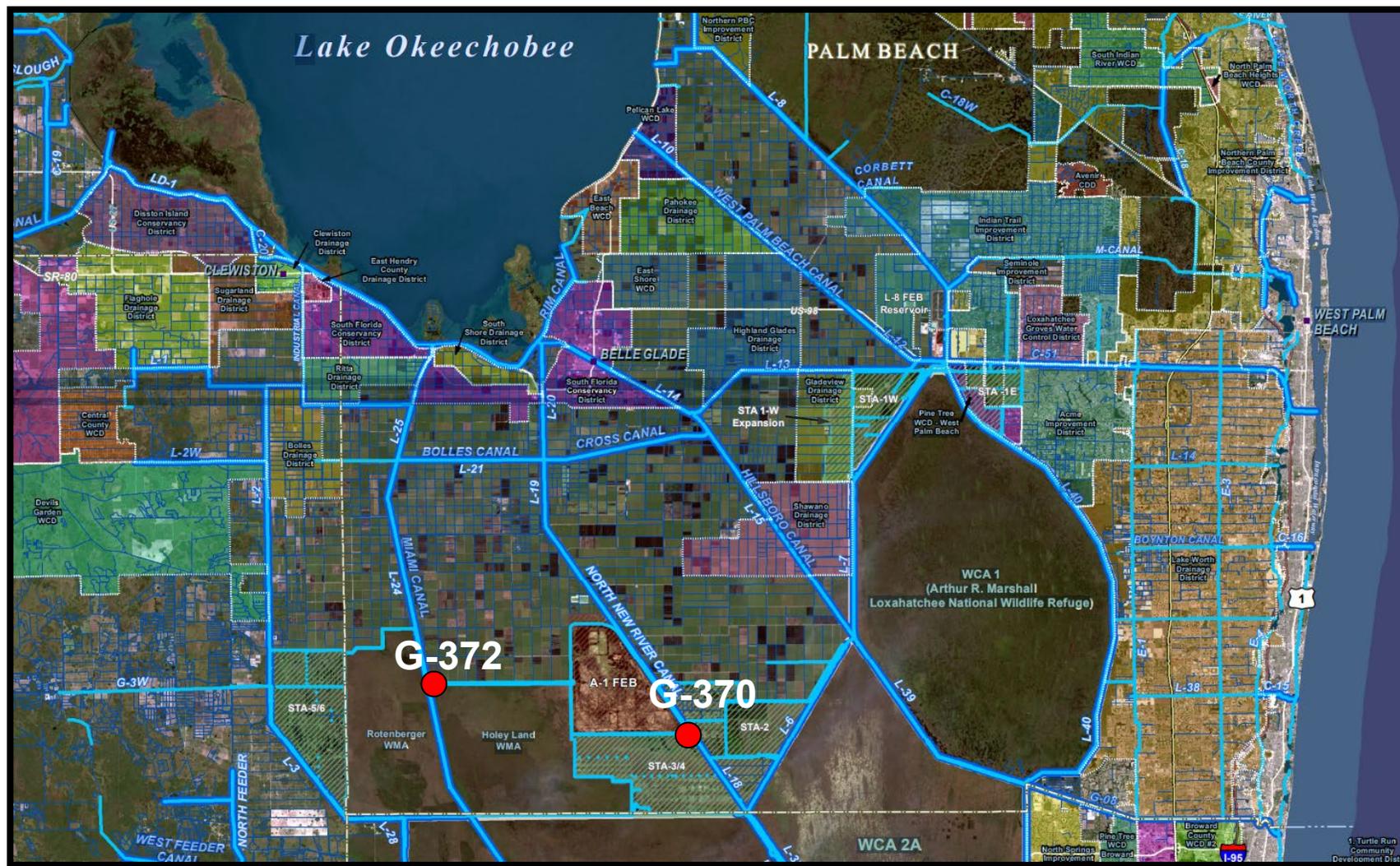
Pump Stations G-370 & G-372 925cfs Pump Overhauls

Rich Virgil, P. E., PMP
Division Director, Field Operations
South Florida Water Management District
Governing Board Meeting: October 12, 2023

sfwmd.gov

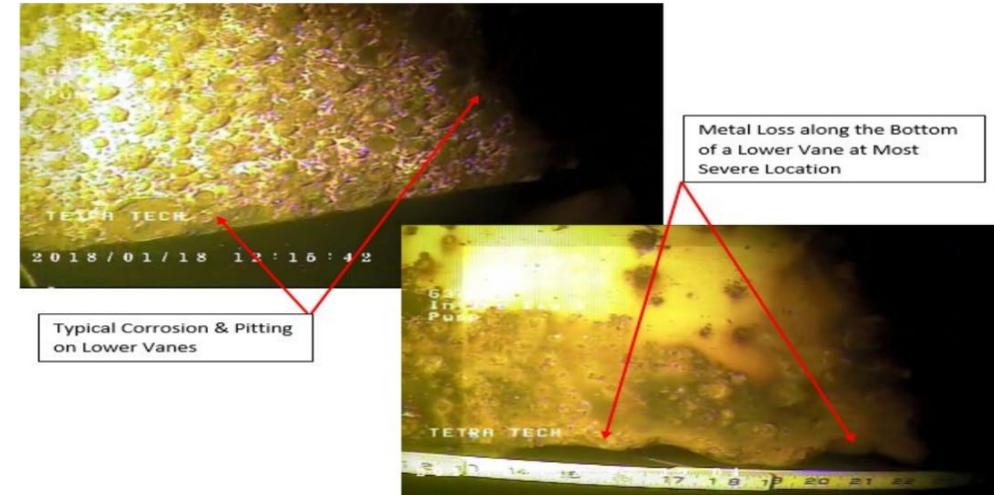


Location Map



Background

- G-370 (STA-3/4 inflow pump station)
 - Three pumps
 - Total capacity of 2775 cubic feet per second (cfs)
 - Constructed in 2004
- G-372 (STA-3/4 inflow pump station)
 - Four pumps
 - Total capacity of 3700 cfs
 - Constructed in 2004
- Underwater inspection in 2018 identified severe corrosion and section loss of leading edges of diffuser vanes, heavy corrosion of pump casings and embedded steel impeller rings.



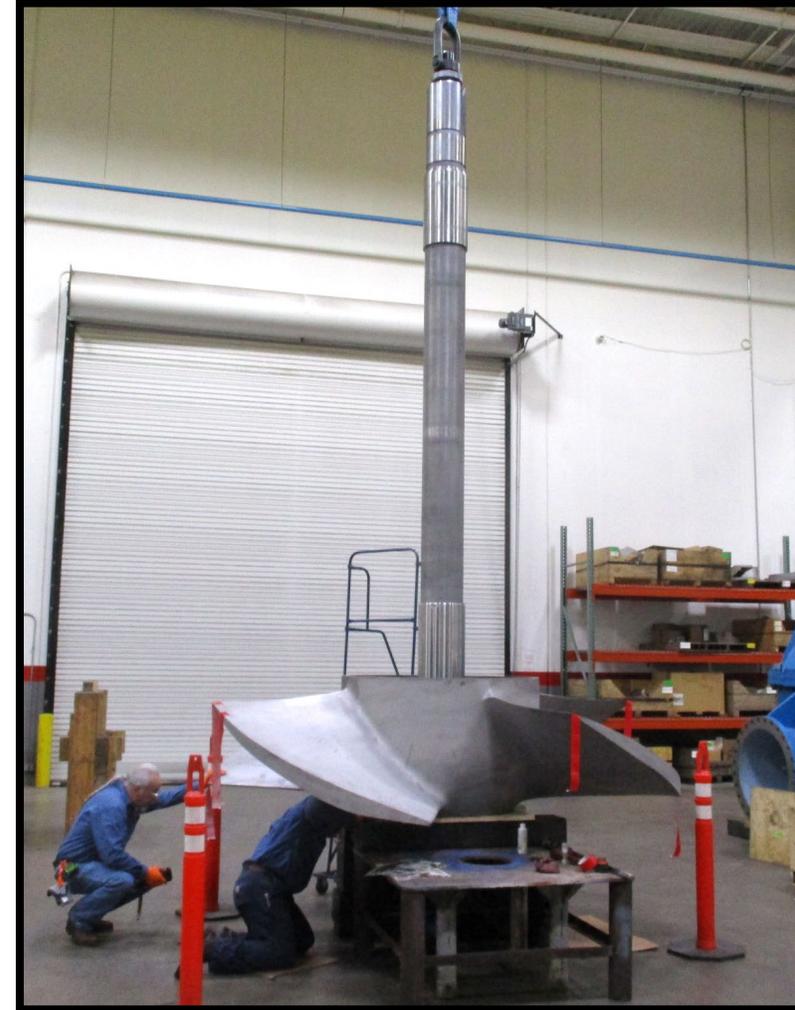
Background

- Overhaul and upgrade seven (7) Flowserve, Inc. vertical axial flow pumps, rated at 925 cubic feet per second (cfs), at G-370 and G-372.
- Performing the overhaul of the pumps is necessary to maintain the equipment and ensure the pump stations function as intended.
- The removal and installation of the pumps will be performed by the Clewiston Field Station Trade Support Section.



Procurement Summary

- To ensure the highest quality product the decision was made to contract with the Flowserve Corp. original equipment manufacturer (OEM) for G-370 and G-372 Pump Overhaul Project.
- Four identical pumps at G-310 and G-335 underwent refurbishment from FY21-FY23 at the Flowserve facility in Pasadena, TX as well as the four 470 cfs Flowserve pumps at G-310 and G-335 in FY20.
- Two contracts for Pump Overhauls at G-310 and G-335 were previously solicited and awarded in FY20 and FY21, to Carter & VerPlanck, the authorized representative of Flowserve Corp. (OEM) being the only responsive and responsible bidder based on qualifications.



M E M O R A N D U M

TO: Governing Board Members
FROM: , Field Operations Division
DATE: October 12, 2023
SUBJECT: A. Miami Shores Villas, LLC

Agenda Item Background:

Miami Shores Villas, LLC (Applicant), is applying for a Right of Way Occupancy Permit (ROW Permit) to construct a private 5-slip marina within the C-8 Canal adjacent to an existing rental apartment building located at 1280 NE 105th Street in Miami-Dade County. The applicant is the owner of the property adjacent to the right of way where the marina will be constructed.

The facilities will be offered as an amenity to the residents of the apartments. In accordance with District rules, no fees will be collected from the residents for use of the facilities. This requirement will be a condition of the ROW Permit.

The proposed marina complies with all District rules and does not require any waivers. If approved, the proposed marina will not limit the District's ability to perform routine or emergency operations, maintenance, or construction activities within the right of way.

Staff Contact and/or Presenter:

ATTACHMENTS:

[Backup Document](#)

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RIGHT OF WAY OCCUPANCY CONSENT AGENDA FOR GOVERNING BOARD APPROVAL

October 12, 2023

	PAGES
I RIGHT OF WAY OCCUPANCY PERMIT (ROW PERMIT) REQUESTS:	
Governing Board action is required for routine requests for permits which conform to applicable rules for utilization of Works and Lands of the District. Items are placed on this Consent Agenda when the staff's recommendation is for approval.	2

RIGHT OF WAY OCCUPANCY PERMIT (ROW PERMIT) REQUESTS

Applicant	Miami Shores Villas, LLC
Application Number	220221-33282
Canal	C-8
Location	North Right of Way Adjacent to 1280 NE 105th Street, Miami-Dade County
Proposed Improvements to be Authorized by ROW Permit 16560-R	5-Slip Private Marina with Electrical Service
Required Waiver(s)	No Waivers are Required
ROW Permit Number (proposed)	16560-R

SUMMARY

Miami Shores Villas, LLC (Applicant), is applying for a Right of Way Occupancy Permit (ROW Permit) to construct a private 5-slip marina within the C-8 Canal adjacent to an existing rental apartment building located at 1280 NE 105th Street in Miami-Dade County. The applicant is the owner of the property adjacent to the right of way where the marina will be constructed. The facilities will be offered as an amenity to the residents of the apartments. In accordance with District rules, no fees will be collected from the residents for use of the facilities. This requirement will be a condition of the ROW Permit.

The proposed marina complies with all District rules and does not require any waivers. If approved, the proposed marina will not limit the District's ability to perform routine or emergency operations, maintenance, or construction activities within the right of way.

RECOMMENDATION

Staff recommends **approval** of issuance of Standard Right of Way Occupancy Permit 16560-R (Application No. 220221-33282).

(Easement)

**Proposed Private 5-Slip Marina
Miami Shores Villas, LLC, Applicant
C-8 Canal – Miami-Dade County**

Right of Way Occupancy Permit No. 16560-R

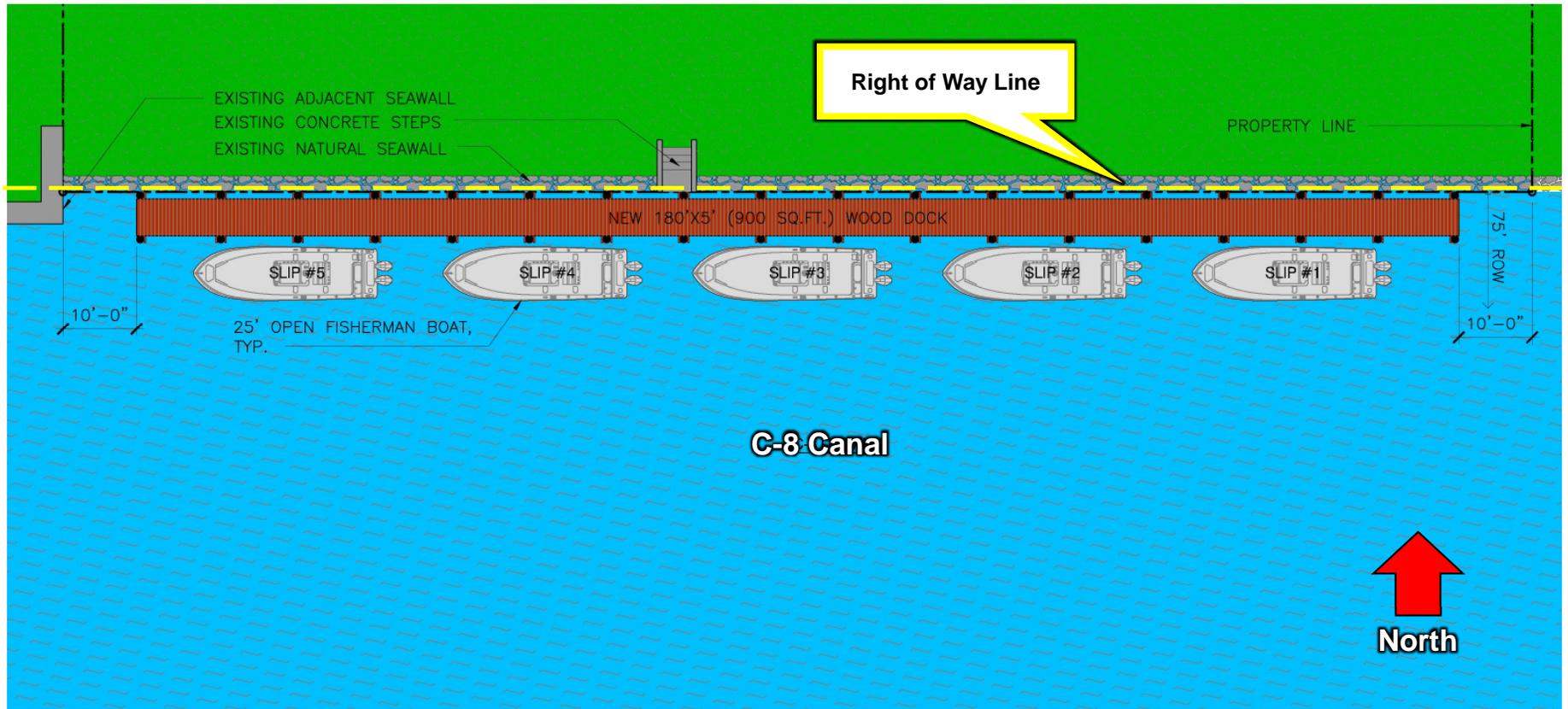
**John R. Hixenbaugh, J.D., AICP
Right of Way Section Administrator
South Florida Water Management District
Governing Board Meeting
October 12, 2023**

Application Information and Location Map

- **Applicant:** Miami Shores Villas, LLC
- **Application Number:** 220221-33282
- **Canal:** C-8 Canal
- **Location:** Within the north right of way of the C-8 Canal adjacent to 1280 NE 105th Street
- **Request:** Issuance of Standard Right of Way Occupancy Permit No. 16560-R to construct a private use 5-slip marina.



Site Plan



Findings

- The proposed marina complies with all District ROW rules and criteria. No waivers are required.
- Construction of the proposed marina will not result in any adverse impacts to District routine or emergency operations or maintenance.

Discussion

MEMORANDUM

TO: Governing Board Members

FROM: , Field Operations Division

DATE: October 12, 2023

SUBJECT: B. Miami-Dade Water and Sewer Department

Agenda Item Background:

Miami-Dade Water and Sewer Department (Applicant) requests a Standard Right of Way Occupancy Permit Number 16703-R (ROW Permit) to install a buried 14-inch parallel run sanitary sewer force main within the north right of way of the C-9 Canal between N.W. 202nd Terrace and Interstate 95 (1.2 Miles) with a waiver to the requirement that the installation be located within 10 feet of the right of way line. The new force main will replace an existing 12-inch force main which was authorized by ROW Permit 2697 in 1965. The waiver is required because the new force main cannot be installed in the required location because the existing force main presently occupies the required location with 10 feet of the right of way line. The new force main is proposed to be installed 10 feet waterward of the existing force main which will locate the new force main more than 10 feet from the right of way line. The distance between the existing and new force main is needed to ensure that construction activity will not adversely impact the existing force main which must remain in service until the new force main installation is completed. The new force main will be located 90 to 100 feet from the top of bank of the C-9 Canal. If approved, the proposed work will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

Staff Contact and/or Presenter:

ATTACHMENTS:

[Backup Document](#)

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RIGHT OF WAY OCCUPANCY CONSENT AGENDA FOR GOVERNING BOARD APPROVAL

October 12, 2023

	PAGES
I RIGHT OF WAY OCCUPANCY PERMIT REQUESTS WITH WAIVER OF DISTRICT CRITERIA:	
Governing Board action is required on petitions received requesting a waiver of District criteria. Section 120.542, F.S. and Rule 28-104.002, F.A.C., requires agencies to grant variances and waivers to their own rules when a person subject to the rules files a petition and demonstrates that he or she can achieve, or has achieved, the purpose of the underlying statute by other means and when application of rule would create a substantial hardship or would violate principles of fairness. A "substantial hardship" is defined as a demonstrated economic, technological, legal or other type of hardship to the person requesting the waiver. "Principles of fairness" are violated when the literal application of a rule affects a particular person in a manner significantly different from the way it affects other similarly situated persons who are subject to the rule. A "waiver" is defined as an agency decision not to apply all or part of a rule to the person subject to the rule.	2-3

RIGHT OF WAY OCCUPANCY PERMIT REQUESTS WITH WAIVER OF DISTRICT CRITERIA

Applicant	Miami-Dade Water and Sewer Department
Application Number	220603-34657
Canal	C-9
Location	North Right of Way Between N.W. 202nd Terrace and Interstate 95
Proposed Improvements to be Authorized by ROW Permit 16703-R	1.2-Mile Buried Parallel Run Sanitary Sewer Force Main
Required Waiver(s)	Waiver of Criteria to Authorize the Utility Installation to be Installed More than 10 Feet from the Right of Way Line
ROW Permit Number (proposed)	16703-R

SUMMARY

Miami-Dade Water and Sewer Department (Applicant) requests a Standard Right of Way Occupancy Permit Number 16703-R (ROW Permit) to install a buried 14-inch parallel run sanitary sewer force main within the north right of way of the C-9 Canal between N.W. 202nd Terrace and Interstate 95 (1.2 Miles) with a waiver to the requirement that the installation be located within 10 feet of the right of way line. The new force main will replace an existing 12-inch force main which was authorized by ROW Permit 2697 in 1965. The waiver is required because the new force main cannot be installed in the required location because the existing force main presently occupies the required location with 10 feet of the right of way line. The new force main is proposed to be installed 10 feet waterward of the existing force main which will locate the new force main more than 10 feet from the right of way line. The distance between the existing and new force main is needed to ensure that construction activity will not adversely impact the existing force main which must remain in service until the new force main installation is completed. The new force main will be located 90 to 100 feet from the top of bank of the C-9 Canal. If approved, the proposed work will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

DISCUSSION/JUSTIFICATION FOR WAIVERS

The Applicant has demonstrated a substantial hardship that supports granting of the requested waiver. Without the waiver, the new force main cannot be installed at a safe distance from the existing force main which must remain in service until the new force main installation is completed. The Applicant has designed the project so that installation occurs as close to the right of way as possible. Upon installation and testing of the new force main, the existing force main will be decommissioned and removed from the District's right of way.

LEGAL NOTICE

The petition for waiver was reviewed by the Office of Counsel for compliance with applicable legal requirements. Pursuant to Section 120.542(6), Florida Statutes, notice of the petition was provided to the Department of State and published in Volume 49, Number 102 of the Florida Administrative Register on May 25, 2023. No public comments were received.

RECOMMENDATION

Staff recommends **approval** of issuance of Standard Right of Way Occupancy Permit 16703-R and **approval** of the associated petition for waiver to allow the installation of a buried parallel run sanitary sewer to be more than 10 feet from the right of way line (Application No. 220603-34657).

(Fee and Easement)

**Miami-Dade Water and Sewer Department
1.2-Mile Buried Parallel Run Sanitary Sewer Force Main with Waiver of Criteria
C-9 Canal – Miami-Dade County**

Right of Way Occupancy Permit No. 16703-R

**John R. Hixenbaugh, J.D., AICP
Right of Way Section Administrator
South Florida Water Management District
Governing Board Meeting
October 12, 2023**

Application Information and Location Map

- **Applicant:** Miami-Dade Water and Sewer Department (MDWASD)
- **Application Number:** 220603-34657
- **Canal:** C-9 Canal
- **Location:** North right of way of C-9 Canal between N.W. 202nd Terrace and Interstate 95 (a distance of 1.2 miles)
- **Request:** Issuance of Standard Right of Way Occupancy Permit No. 16703-R to install a buried 14-inch parallel run sanitary sewer force main with a waiver of criteria to allow the pipe to be installed more than 10 feet from the right of way line. The new force main will replace an aging 12-inch force main that was authorized by ROW Permit 2697 in 1965.



Typical Plan View



Findings

- The applicant has a demonstrated hardship and granting of the requested waiver can be supported.
- The new force main cannot be installed within 10 feet of the right of way line because there is an existing force main already within the right of way. The existing force main must remain in service while the new force main is installed.
- The new force main will be installed 10 feet from the existing force main to ensure no damage to the existing 55+ year old force main.
- The right of way is very wide at this location allowing for the new force main to be installed 90 to 100 feet from top of bank.

Findings

- To reduce the potential for leaks or blowouts, the new force main will be constructed as a single seamless pipe with valves at the points of entry to and exit from the right of way.
- Upon completion of the work, the existing force main will be removed.
- Granting of the waiver will not adversely impact the District's ability to perform routine or emergency operations, maintenance, or future construction activities.

Discussion

MEMORANDUM

TO: Governing Board Members

FROM: Jennifer Reynolds, Ecosystem Restoration & Capital Projects

DATE: October 12, 2023

SUBJECT: Northern Everglades and Estuaries Protection Program Briefing

Agenda Item Background:

The Northern Everglades and Estuaries Protection Program (NEEPP) promotes a comprehensive approach to restore and protect surface water. Comprised of the Lake Okeechobee Watershed (LOW), Caloosahatchee River Watershed (CRW), and St. Lucie River Watershed (SLRW), the NEEPP uses a combination of research, monitoring, source controls and construction projects to reduce nutrients and increase water storage opportunities in the three watersheds. Water quality improvements in the Northern Everglades watersheds are a shared responsibility between the Florida Department of Environmental Protection, Florida Department of Agriculture and Consumer Services, and the District (Coordinating Agencies). This item will highlight ongoing NEEPP efforts to support the state's water quality goals and restoration of the Northern Everglades ecosystems.

Staff Contact and/or Presenter:

Jennifer Reynolds, jreynolds@sfwmd.gov, 561-682-6672
Megan Jacoby, mjacoby@sfwmd.gov, 561-682-6517

ATTACHMENTS:

MEMORANDUM

TO: Governing Board Members

FROM: , Office of Communications & Public Engagement

DATE: October 12, 2023

SUBJECT: eComment received for item number 11, final presentations for item numbers 17, 27, 28, and 29, and NEPP Project Update

Agenda Item Background:

Staff Contact and/or Presenter:

ATTACHMENTS:

[11 eComment Cranford](#)

[11 eComment Duke](#)

[17 Release of Reservations](#)

[27 Reynolds NEEPP Briefing](#)

[28 Mitnik Water Conditions Report](#)

[29 Glenn Ecological Conditions Report](#)

From: noreply@granicusideas.com
To: [Brown, Molly](#); [Fretwell, Angela](#); [Bonilla, Yvette](#)
Subject: New eComment for October 2023 Governing Board Meeting
Date: Tuesday, October 10, 2023 11:54:55 AM

[Please remember, this is an external email]

[South Florida Water Management District](#)

New eComment for October 2023 Governing Board Meeting

Mark Cranford submitted a new eComment.

Meeting: October 2023 Governing Board Meeting

Item: 11) General Public Comment

eComment: Thank you for offering the ability to submit genius ideas and your sign-in application form states that opportunity. My genius idea is genius and as established by my 2016 City of Fort Myers Art and Culture Grant Award sponsored by the Robert Rauschenberg Foundation and administration by the SWFL Community Foundation Collaboratory. I was recognized as genius, conceptual artist and American Revolutionary and in counter revolution to Lee County academic and civil culture direction and governance. My Grant Award authorities refuse to publish and exhibit my grant award and subsequent inventions in art and civil rights. I invented two new conceptual arts and new forms in visual art history painting. I pioneered submitting them through local government because academia is not allowed to recognize a new conceptual art or new form in visual art history painting. There is no known academia, institution or individual that can affirm a new form in painting. My grant in part establishes recycling, sustainability and social practice for visual art history painting through recycling the artists scrap paint tube and materials as painting and extracted found paint as painting - paint extracted from old cans processed as painting. Paint is a micro plastic and has been found in the human heart. Micro plastics are a primary water pollutant and also promote the ability of Cyanobacteria to bloom in our waterways. Our top academic in SWFL is Jade Dellinger Director of the Bob Rauschenberg Gallery. Director Dellinger stated my work is of fundamental environmental importance. I am his closest peer here in SWFL. He made me environmentalist in 2019. Recycling the artists scrap paint tube is the most significant recycle art since the artist EI invented recycling for foil labels from alcohol bottles, the paint tubes are beautiful and especially linked together as large tapestry paintings. In 2017 I invented the graphic design for EQUAL ACCESS / COMPUTER EQUALITY / AMERICAN CIVIL RIGHT, Computer Handicap recognition and Icon and submitted it as part of our City of Fort Myers Art and Culture Grant Recipients Exhibition at SBDAC. Hurricane Irma closed our Grant Exhibition after one night and my grant award and new civil right was not published. City of Fort Myers ART CONSULTANT TOM HALL told me my grant was not published because so few

people saw it. He then asked me to name the top four artists of the Robert Rauschenberg conceptual legacy and if I could establish CIVIL RIGHTS FOR VISUAL ART, ARTISTS AND ART HISTORY BASED ON ART HISTORY. I invented a formula and submitted it to Mayor Henderson and the City of Fort Myers in January of 2020. Former CEO Sarah Owen came to our 2017 Grant Recipient Exhibition at SBDAC and addressed me as Metaphysician and asked me about the academic enigmas I crack and in real time and if I could read the minds of other metaphysicians. My Ward 4 City Councilman Dr Liston Bochette asked me to write a set of reports on the forces that are tearing our City and Nation apart. I submit and read my reports as sworn affidavits to the City Council of Fort Myers. Recently I outed Director Dellinger as head of an unknown academia - occult and art metaphysical academia. This is the only academia that can affirm a new form in painting and he is not allowed to do that. My grant was to expose this condition in academia and governance. I also outed Director Dellinger as academic adjudicator for post WW2 Antifa. One of the architects of the Sanibel Plan also created a second plan from Captiva with Robert Rauschenberg and occult and art metaphysical academia to establish tensions for civil war and population reduction by unpreparedness for flu pandemic. Post WW2 Antifa became academic Fluxus in 1979 and as Lee County academic and civil culture direction and governance and as a conceptual cultural Marxism Communism and for our domination by artificial intelligence. Academic Fluxus is exactly as it is spelled Flu X US, Flu x us. The Sanibel Plan put animals and computers over human development and which established tensions for civil war. Our environmental institutions and academia were set up to waste our time until artificial intelligence is imposed on us US. Bob Rauschenberg Gallery Director Dellinger is here in part for the opportunity to establish sustainability for human governance and in the time of artificial intelligence. Director Dellinger is here in part for the possibility of illuminating a new Enlightenment and with the help of the Robert Rauschenberg conceptual legacy - which has not been officially recognized yet. SFLWMD Chairman has a conflict of interest with the architect of the Sanibel Plan and Rauschenberg's void as post WW2 Antifa. I would like to come talk to you and demonstrate how much pollution can come from a totally used scrap paint tube but it would take more than three minutes. I was given an amazing honorary title from the Pulitzer Prize Art Critic Jerry Saltz: Dr. Mark Cranford Metaphysician, conceptual artist + excellent environmentalist Seer. Thank you, Mark Cranford

[View and Analyze eComments](#)

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From: noreply@granicusideas.com
To: [Brown, Molly](#); [Fretwell, Angela](#); [Bonilla, Yvette](#)
Subject: New eComment for October 2023 Governing Board Meeting
Date: Tuesday, October 10, 2023 9:16:49 AM

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[South Florida Water Management District](#)

New eComment for October 2023 Governing Board Meeting

[Mary Duke](#) submitted a new eComment.

Meeting: October 2023 Governing Board Meeting

Item: 11) General Public Comment

eComment: C-44 Canal does not hold water. Is the construction company below going into o be held responsible and not the citizens of Florida? Barnard Construction Co. Inc. from Bozeman, Mont. The contract involves the construction of a 3,400-acre reservoir that will store up to 15 feet of water and will provide 50,600 acre-feet (16.5 billion gallons) of storage capacity. Construction is anticipated to begin this winter.

[View and Analyze eComments](#)

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Release of Reservations

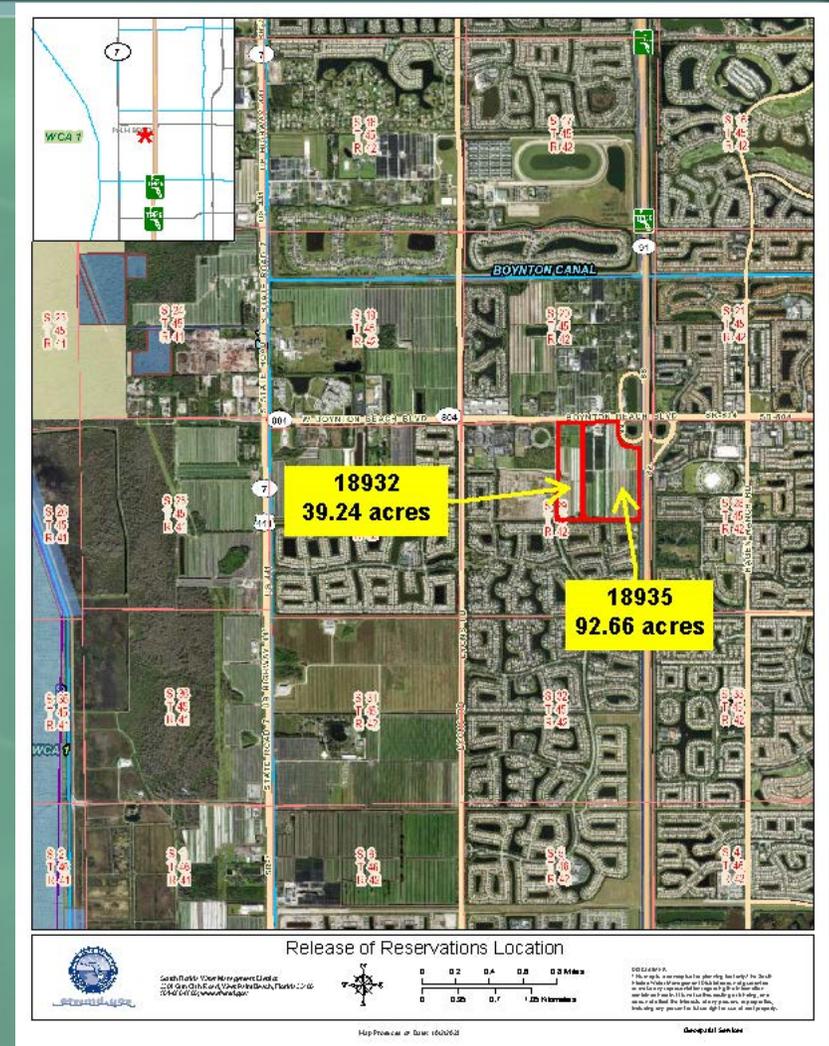
**Governing Board Meeting
October 12, 2023
Jennifer Reynolds, Division Director
Ecosystem Restoration & Capital Projects**



Release of Reservations

Reservation release requests

- Two owners
- Application Nos. 18932 and 18935
- Palm Beach County
- Reservation areas
 - 39.24 acres
 - 92.66 acres

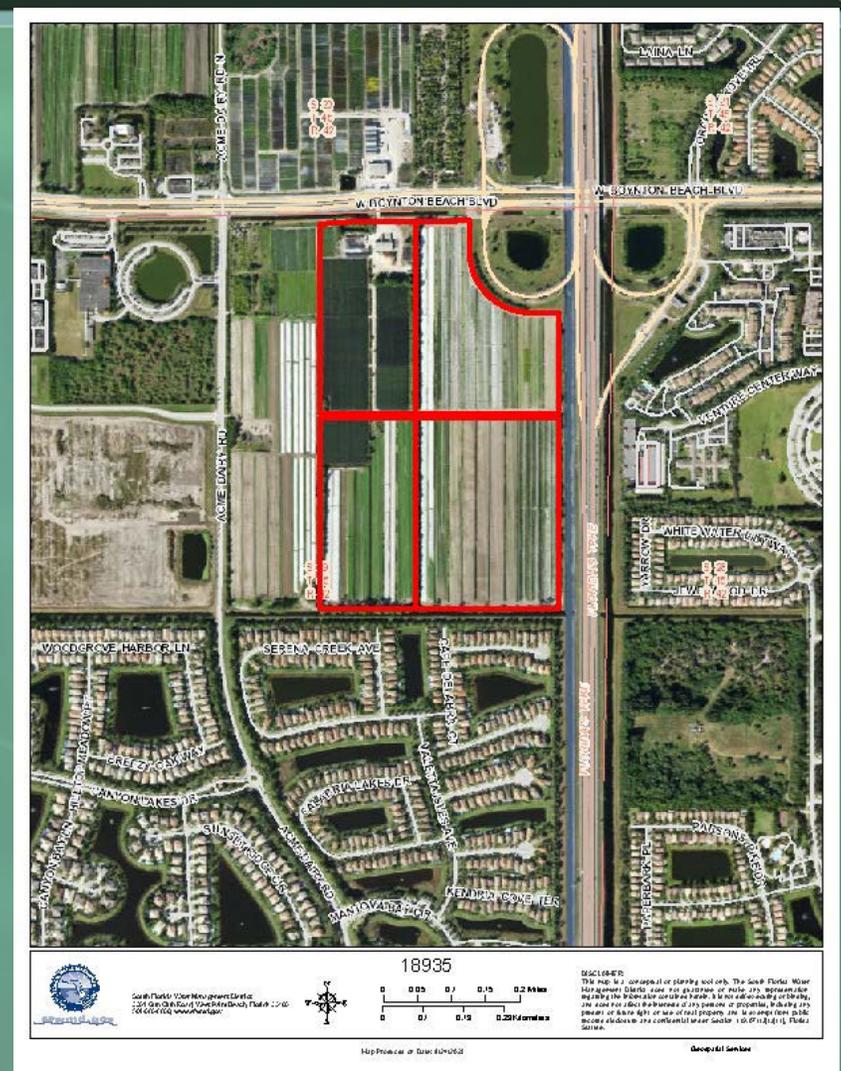


Release of Reservations – No. 18935

Release of canal and road reservations

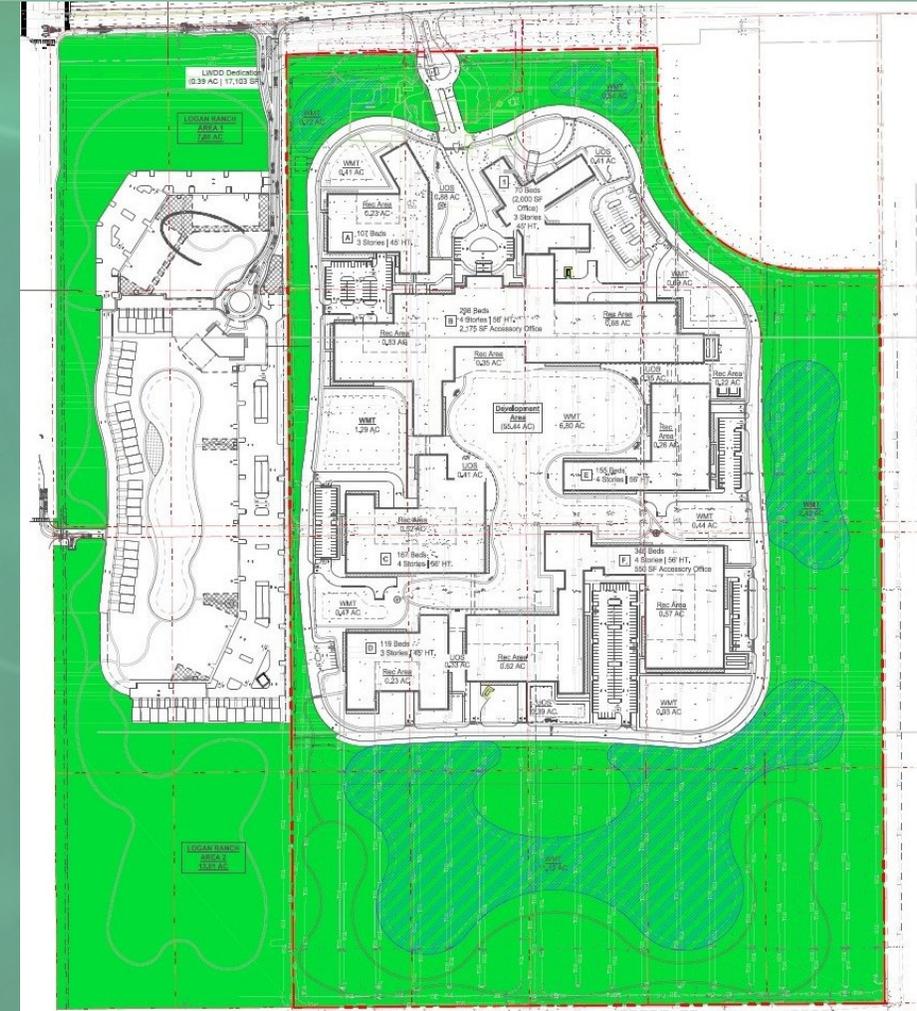
Owner: William A. Mazzoni Revocable Trust

- Total reservation area 92.66 acres
- 20 reserved subdivision tracts
- 4 reserving deeds
- Release Value: \$645,956.04



Release of Reservations

- Palm Beach County Planning and Zoning Board approved change from Agricultural Reserve to Multiple Use Planned Development
 - 18932 - approved 1/13/2023
 - 18935 - approved 4/14/2023
- Conservation Easements required by County over areas shown in green



Resolution



A Resolution of the Governing Board of the South Florida Water Management District to release certain canal and road reservations following execution of an agreement designating the District as a beneficiary of a recorded conservation easement pertaining to the property.

Public Comment

If you're participating in person –
please fill out a comment card and
give to a meeting attendant

If you're participating via Zoom –
use the Raise Hand feature

If you're participating via Phone –

*9 Raises Hand

*6 Mutes/Unmutes



3:00



Questions or Comments?

Northern Everglades and Estuaries Protection Program Update

Jennifer Reynolds
Division Director, Ecosystem Restoration
Governing Board Meeting
October 12, 2023



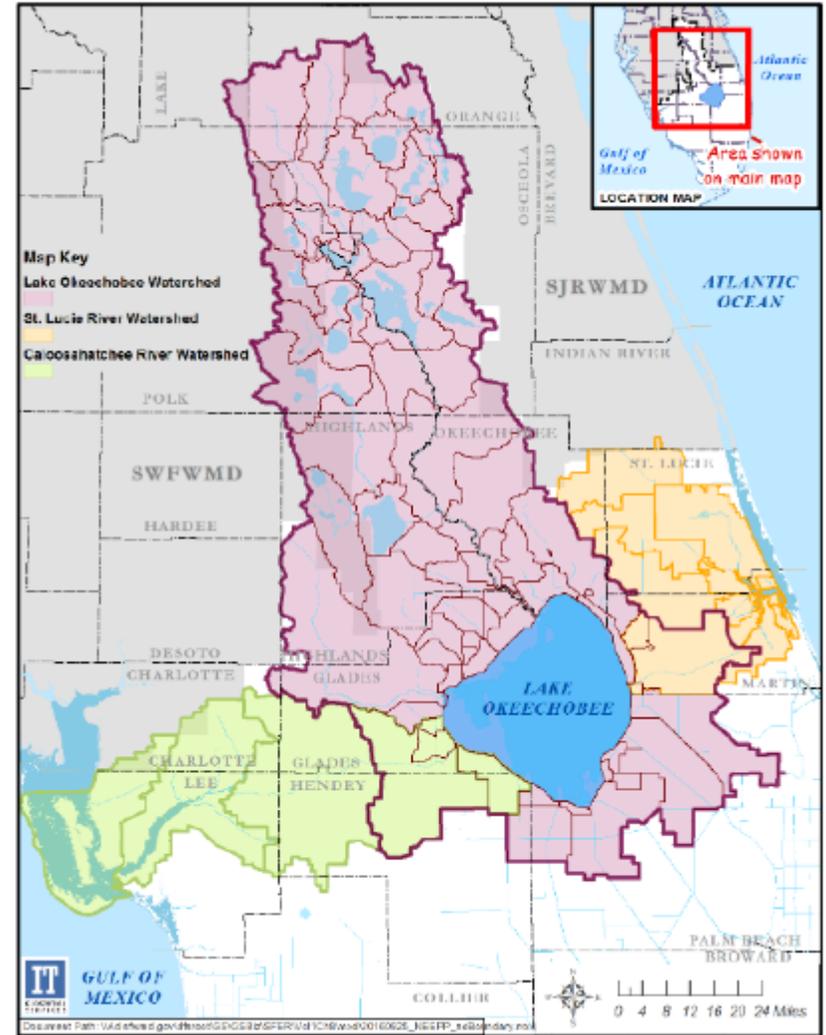
Overview

- Intro to NEEPP
- District Strategic Priorities for NEEPP
- Watershed Overviews
- NEEPP Programs
- NEEPP Projects
- Status of Goals
- Next Steps



Northern Everglades and Estuaries Protection Program

- Purpose: Protect and restore surface water resources by improving hydrology and water quality for the Northern Everglades ecosystem 373.4595(1)(c), F.S.
- Goal: Improve Water Quality
 - Lake Okeechobee: Total Phosphorus (TP)
 - Caloosahatchee Estuary: Total Nitrogen (TN)
 - St. Lucie Estuary: TP and TN
- Goal: Manage Water Quantity
 - Increase water storage north of Lake Okeechobee and in Caloosahatchee and St. Lucie River Watersheds



NEEPP Interagency Coordination

- FDEP:
 - Basin Management Action Plans (BMAP)
 - Best Management Practices (BMP) enforcement
- FDACS:
 - BMP enrollment, verification and updates
- SFWMD:
 - Watershed Protection Plans (WPP) and projects
 - Research and water quality monitoring

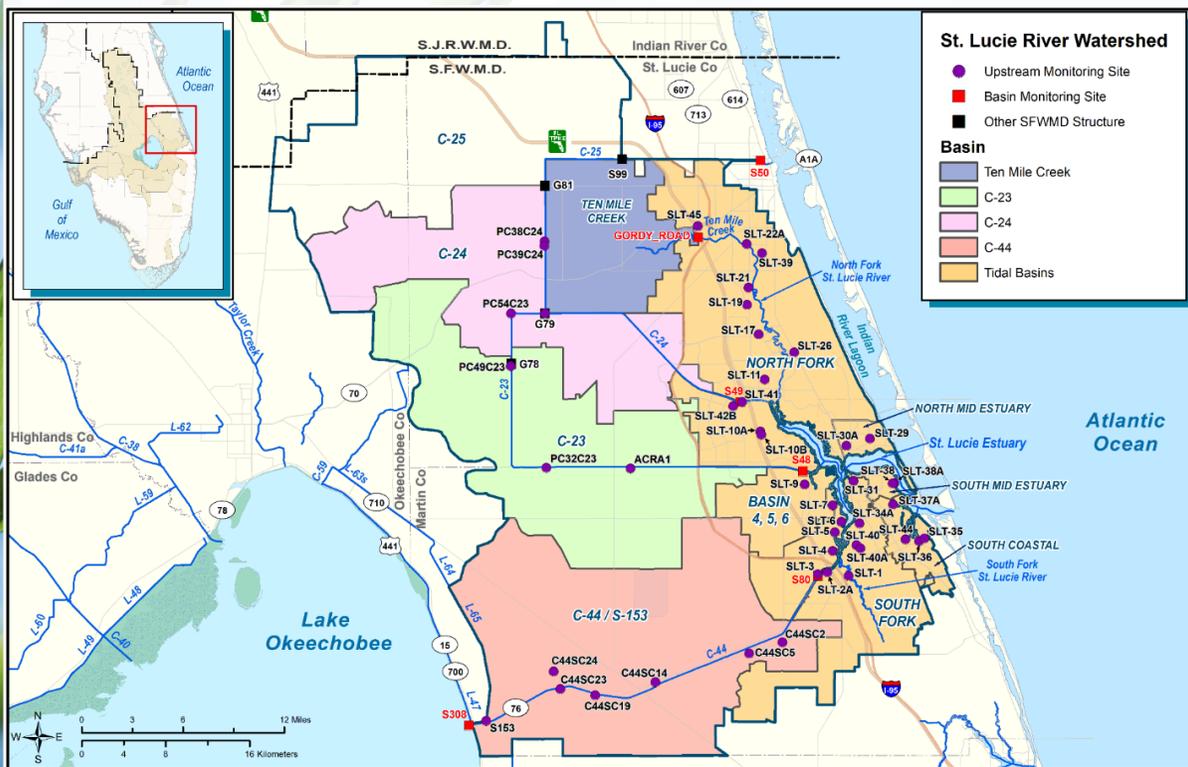


SFWMD 2023-2028 Strategic Priorities

- Advancing the projects identified by Gov. DeSantis
- Maximize use of available water storage features (reservoirs and FEBs)
- Implementing solutions to improve water quality treatment, reduce nutrient loads and reduce the likelihood of harmful algal blooms
- Success Indicators:
 - Fully utilize interim and permanent water storage & identify storage needs
 - Improve water quality entering Lake Okeechobee and the Northern Estuaries
 - Establish a series of milestones to meet the storage and treatment goals for the Lake Okeechobee watershed



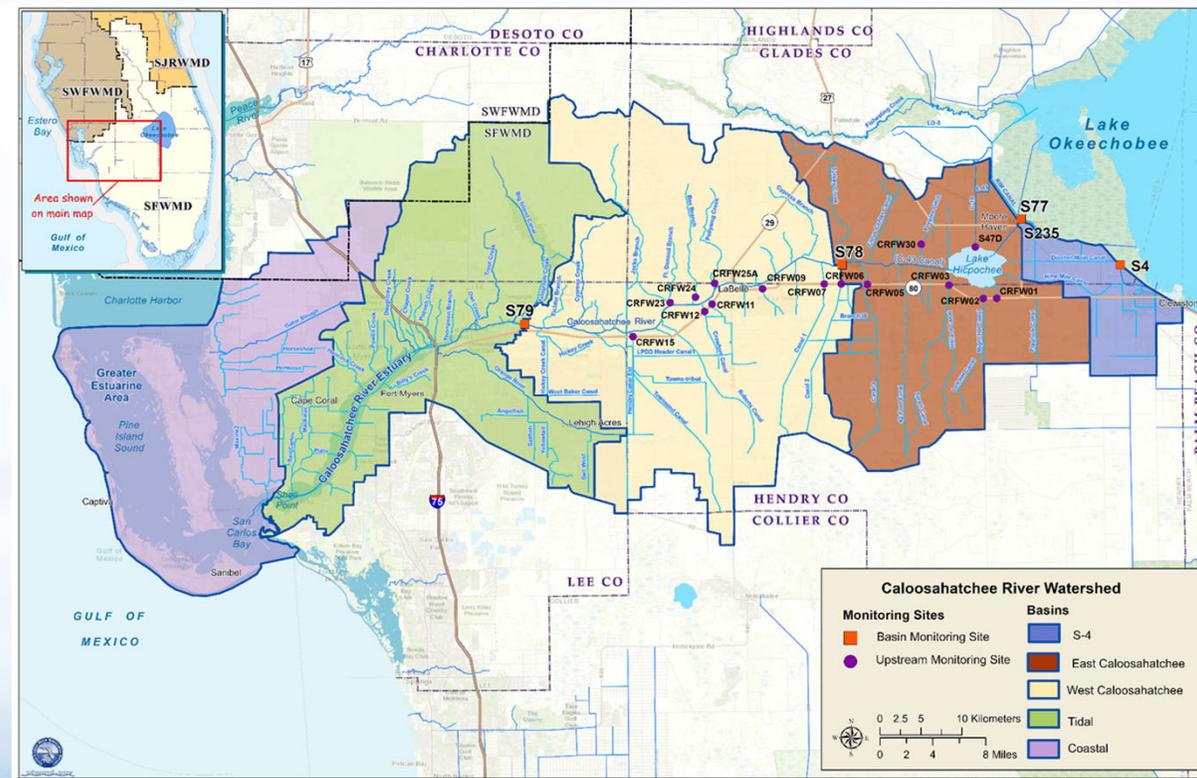
St. Lucie River Watershed



- Total watershed 537,786 acres
- Comprised of 6 Basins
- Monitoring Stations
 - 6 Basin level sites
 - Used to estimate nutrient loads
 - Flow, nutrients, physical parameters
 - 44 Upstream level sites
 - Used to highlight concerns, direct resources, and measure progress
 - Nutrients, physical parameters

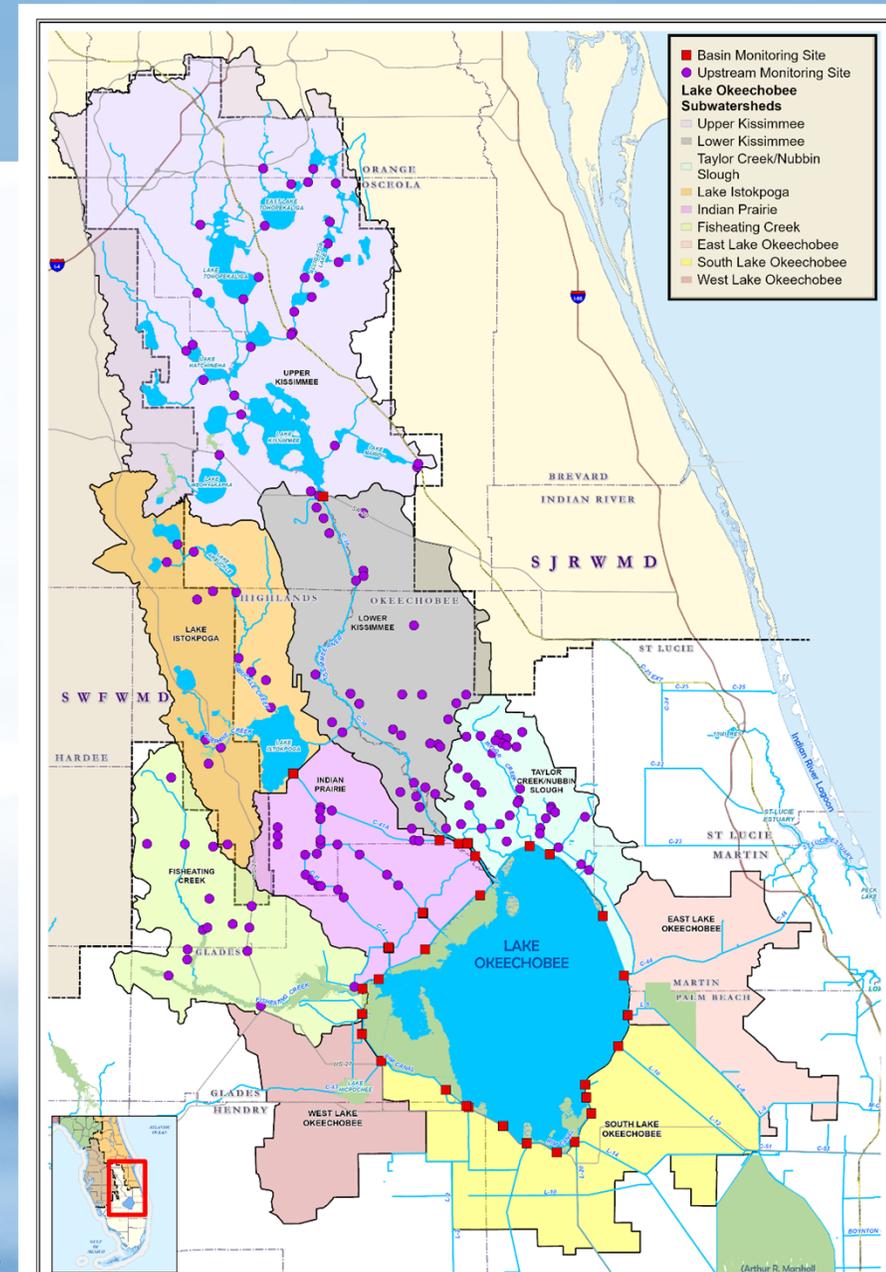
Caloosahatchee River Watershed

- Total watershed 861,063 acres
- Comprised of 5 Basins
- Monitoring Stations
 - 5 Basin level sites
 - Used to estimate nutrient loads
 - Flow, nutrients, physical parameters
 - 15 Upstream level sites
 - Used to highlight concerns, direct resources, and measure progress
 - Nutrients, physical parameters



Lake Okeechobee Watershed

- Total watershed 3,450,475 acres
- Comprised of 9 Subwatersheds
- Monitoring Stations
 - ■ 37 Basin Level Sites
 - Used to estimate nutrient loads
 - Flow, nutrients, physical parameters
 - ● 150 Upstream level sites
 - Used to highlight concerns, direct resources, and measure progress
 - Nutrients, physical parameters



Summary of NEEPP Watersheds

Northern Everglades and Estuaries Watershed Nutrient TMDLs

	Lake Okeechobee Watershed	St. Lucie River Watershed	Caloosahatchee River Watershed
TMDL Target	TP: 140 metric tons/year	TP: 0.081 mg/L TN: 0.72 mg/L	TN: — 1,383 metric tons/year ^a
TMDL Measurement Location	Sum of inflows to the Lake	Roosevelt Bridge	S-79
TMDL Adopted	May-2001	Oct-2008	Sep-2009
Florida Administrative Code	62-304.700	62-304.705	62-304.800

^a TN TMDL = Compliance updated in 2022 5-Year Review of the Caloosahatchee River and Estuary Basin Management Action Plan 3,048,783 lbs/year or 1,383 metric tons/year (2205 lbs ≈ 1 metric ton)

1st Annual NEEPP Public Workshop



For more information on the NEEPP Workshop visit

[SFWMD.gov/WPPs](https://www.sfwmd.gov/WPPs)

“We see all these presentations often ... but the opportunity to see who’s behind the presentations, behind the posters, behind the data—and have the opportunity to talk with them. It’s very helpful for us.” J. Fojtik, FFBF

Presenter: Jennifer Reynolds

1st Annual NEEPP Public Workshop



"An opening to have great conversations. I think a lot of public meetings that we have they feel robotic... but in this case, we can actually talk to actual humans working on issues... I hope you do it again." L. Kreiger, Lee County

Presenter: Jennifer Reynolds

DEP BMAP Progress

NEEPP BMAP Project Status (December 31, 2022)





DEP Septic to Sewer Conversions

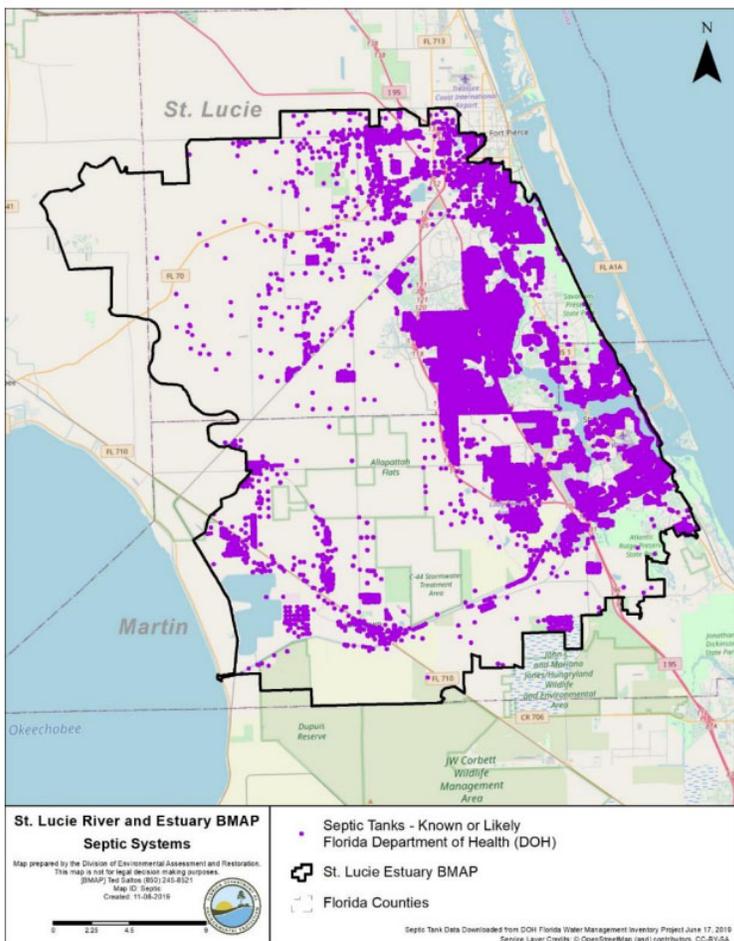


Figure 4. Location of septic systems in the SLREW

2019	No. Septic Systems	Estimated TP Load (mt/yr)	Estimated TN Load (mt/yr)
LOW	124,176	64	663
SLRW	46269	25	257
CRW	56,603	29	299

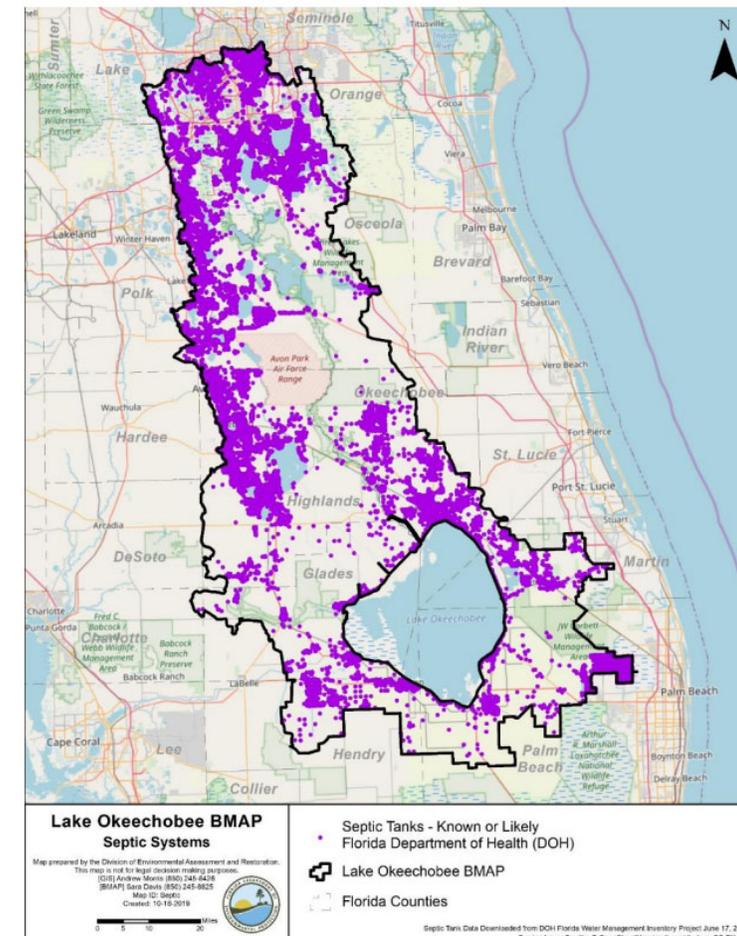
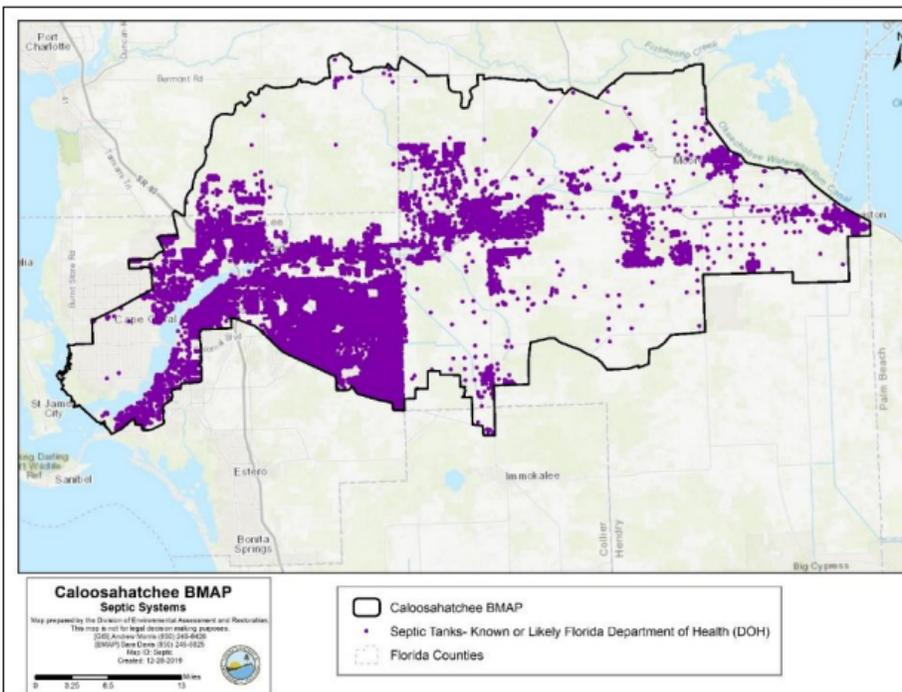
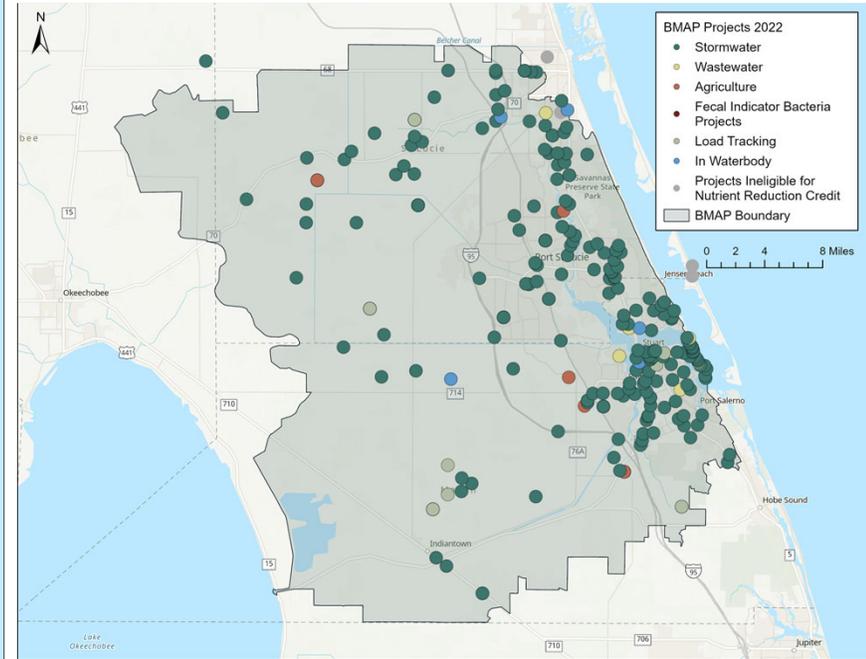
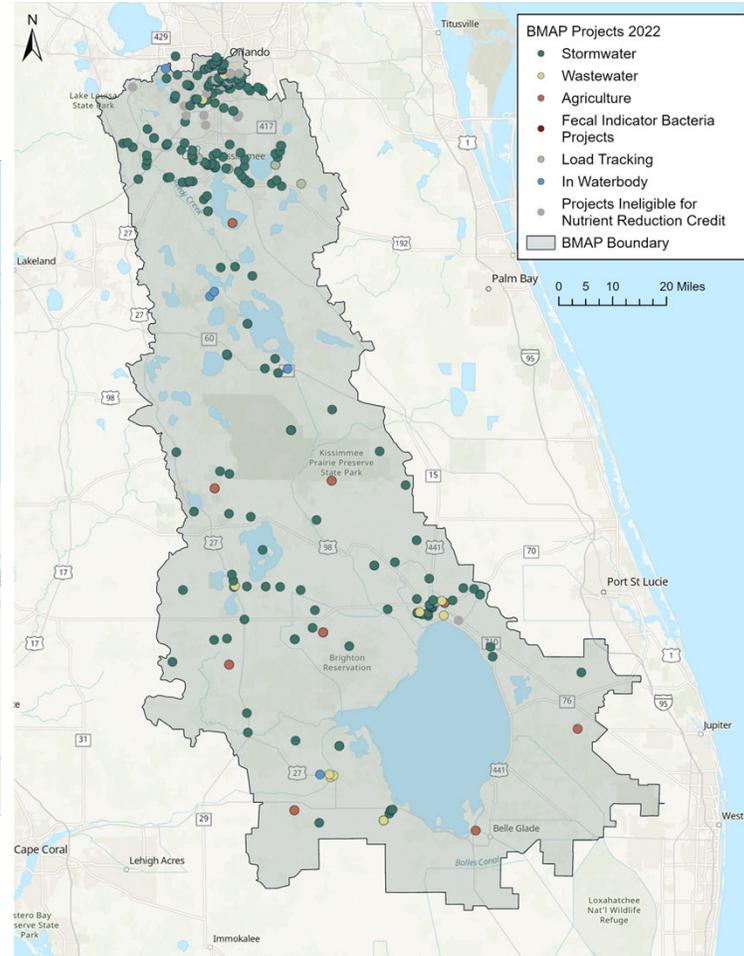
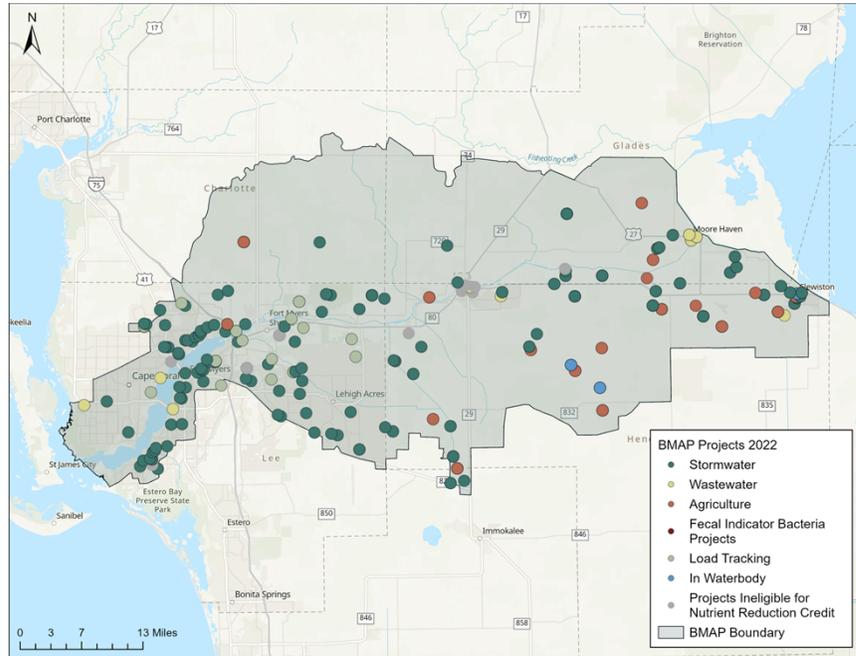


Figure 3. Location of septic systems in the LOW



DEP Septic to Sewer Conversions

Implemented as of December 2022



BMP Enrollments within NEEPP*

	Caloosahatchee River Watershed	Lake Okeechobee Watershed	St. Lucie River Watershed
Total Ag Acres	443,344	1,827,665	374,716
Enrolled Ag Acres	374,622	1,560,013	307,194
Percent Enrolled	84%	85%	82%
Total Irrigated Ag Acres	181,000	641,112	89,002
Enrolled Irrigated Ag Acres	168,274	603,674	81,090
Percent Enrolled	93%	94%	91%

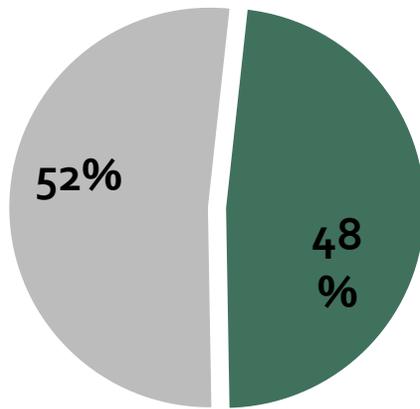
FDACS BMP Program enrollment as of April 30, 2023 and the 9th Florida Statewide Agricultural Irrigation Demand ([FSAID](#)) Geodatabase

*The boundaries of the LOW overlap with those of the CRW and SLRW; therefore, the enrollment acreages provided for the different watersheds may include the same NOIs

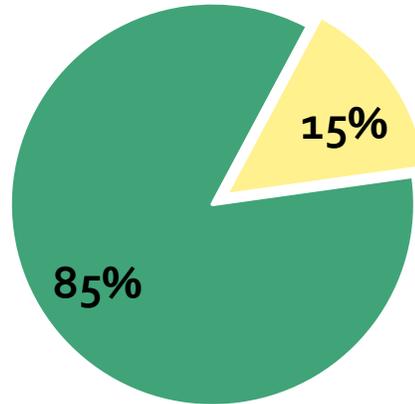




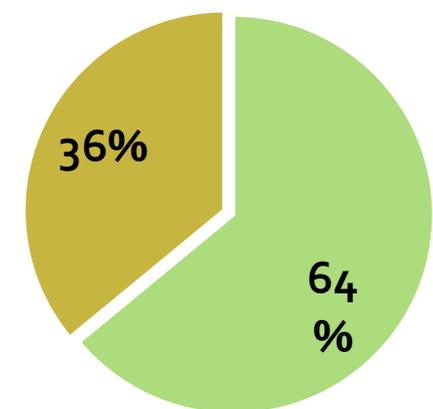
Agricultural Lands within NEEPP Boundary*



The entire NEEPP area



Agriculture in the NEEPP area



Unenrolled Agriculture in the NEEPP area

* These estimated percentages were calculated by combining the three Northern Everglades BMAP areas together and may include enrollment acreages associated with more than one watershed. For more information and a summary for the individual BMAPs, see *Status of Implementation of Agricultural Nonpoint Source Best Management Practices* (FDACS 2023), which can be found at <https://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy>

** This percentage includes acreages within state-owned properties and/or surface water project areas that are not included in the 'unlikely enrollable' or 'potentially enrollable' acres categories



Watershed Protection Plan Reporting



Lake Tohopekaliga

For more information on NEEPP progress, view the *Draft 2024 South Florida Environmental Report* (October 2023) at:

[SFWMD.gov/SFER](https://www.sfwmd.gov/SFER)



NEEPP Projects

- Restore historic wetlands
- Address storage needs
- Remove nutrient loading
- Facilitate research
- Introduce innovative technologies
- Provide opportunities to partner with private landowners



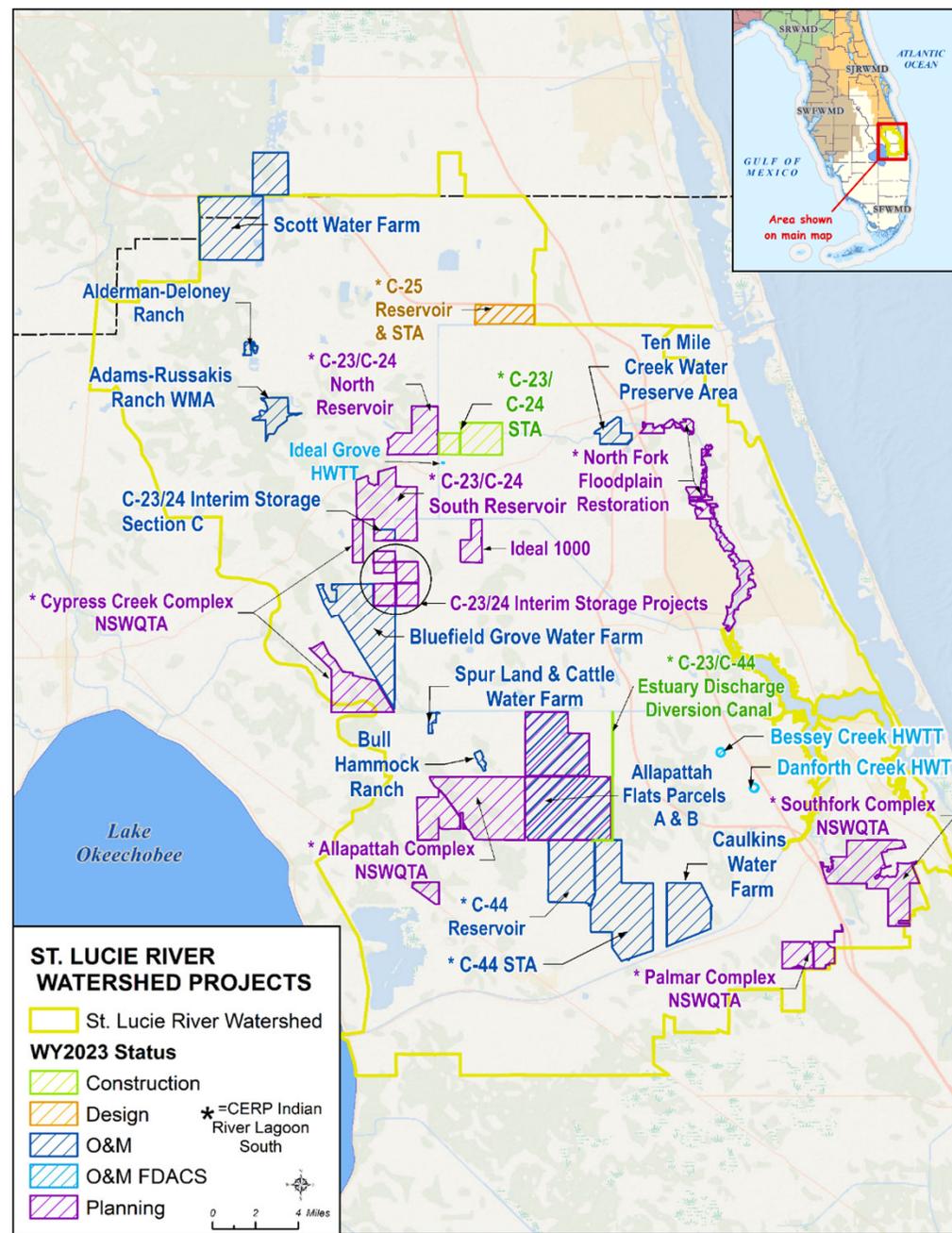
St. Lucie River Watershed Projects

➤ 2023 Status:

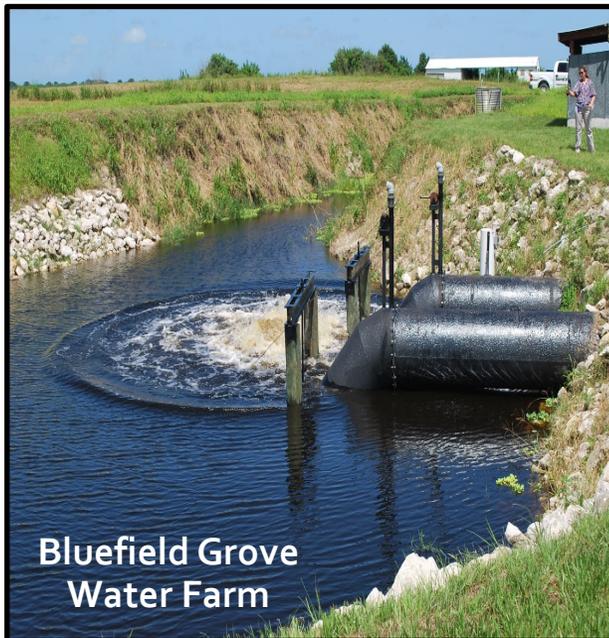
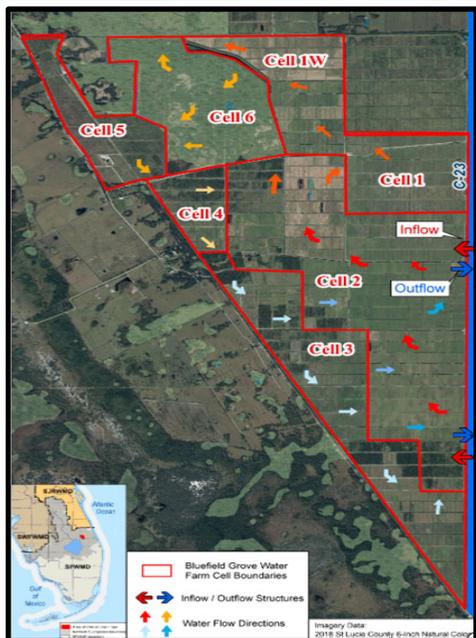
- 10 projects – planning/design
- 2 project – construction
- 11 projects – operations



St. Lucie Inlet



SLRW Public Private Partnerships



Bluefield Grove Water Farm

Bluefield Grove

- Large-scale stormwater storage and treatment
 - 6,104 acres on private land, prior citrus operation
- WY2023 benefits:
 - Stored 31,625 ac-ft
 - Removed 14.2 mt TP
 - Removed 70.3 mt TN



Caulkins Water Farm Expansion

Caulkins Water Farm Expansion

- Stormwater and C-44 Canal storage and treatment
 - 3,275 acres on private land, prior citrus operation
- WY2023 benefits:
 - Stored 34,923 ac-ft
 - Removed 5.2 mt TP
 - Removed 48.3 mt TN

SLRW Public Private Partnerships

Spur Land and Cattle Water Farm

- Active dispersed water management area
 - 210 acres on private land, prior ranchland
- WY2023 benefits:
 - Stored 1,819 ac-ft
 - Removed 0.7 mt TP
 - Removed 3.3 mt TN



Bull Hammock Ranch

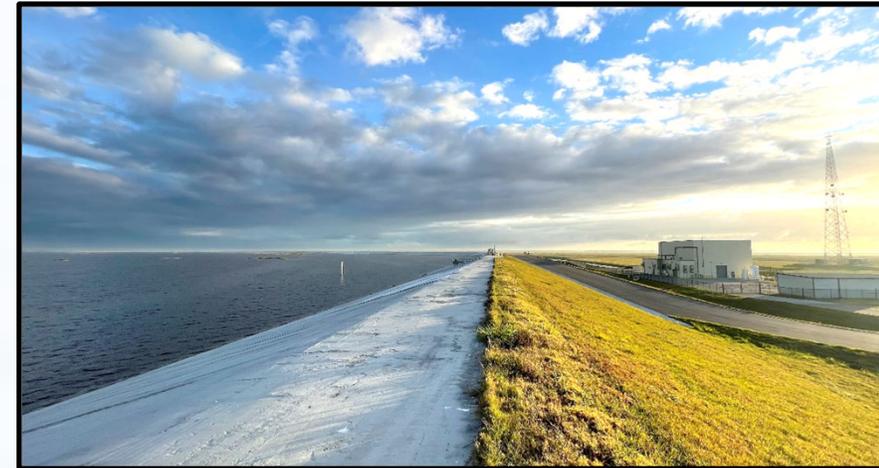
- Dispersed water management area
 - 608 acres on private land, prior tomato farm
- WY2023 benefits:
 - Stored 996 ac-ft
 - Removed 0.4 mt TP
 - Removed 1.8 mt TN



C-44 Basin Project Highlight

C-44 Reservoir & STA

- Description:
 - 3,400-acre reservoir with 6,300-acre STA divided into 6 cells
 - Schedule: In testing phase, fully operational in WY2027
- Estimated benefits (per year):
 - 60,050 ac-ft storage
 - 23.0 mt TP removal
 - 77.0 mt TN removal
- WY2023 benefits (Operational Testing and Monitoring):
 - Stored 9,730 ac-ft
 - Removed 4.3 mt TP
 - Removed 19.7 mt TN



C-44 Reservoir



US Army Corps of Engineers

SLRW CERP Projects

C-23/C-24 Reservoir & STA

➤ Description:

- North Reservoir: 2,438 acres, South Reservoir : 4,672 acres
- Schedule: Design (2023), Construction (2024-2030), O&M (2030)
- STA: 2,568 acres
- Schedule: Construction (2023-2025), O&M (2026)

➤ Estimated benefits (per year):

- 91,500 ac-ft storage
- 80% reduction in TP & TN



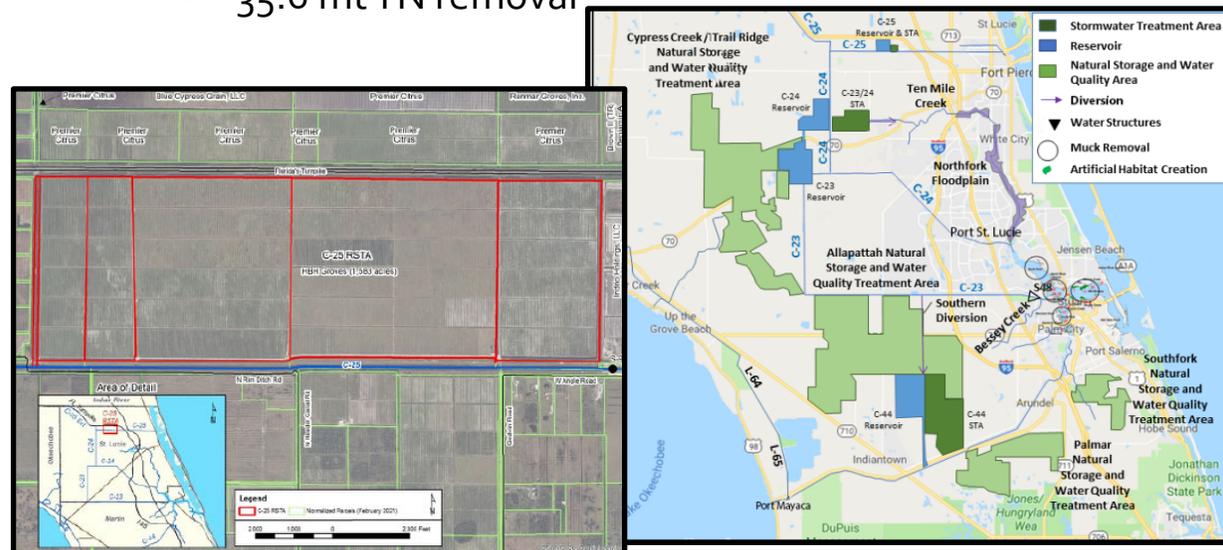
C-25 Reservoir & STA

➤ Description:

- 1,113 acre reservoir and 163 acre STA
- Schedule: Design (2023), Construction (2024-2025), O&M (2026)

➤ Estimated benefits (per year):

- 5,392 ac-ft storage
- 8.9 mt TP removal
- 35.6 mt TN removal





US Army Corps
of Engineers®

SLRW CERP Projects

Loxahatchee River Watershed Restoration Project

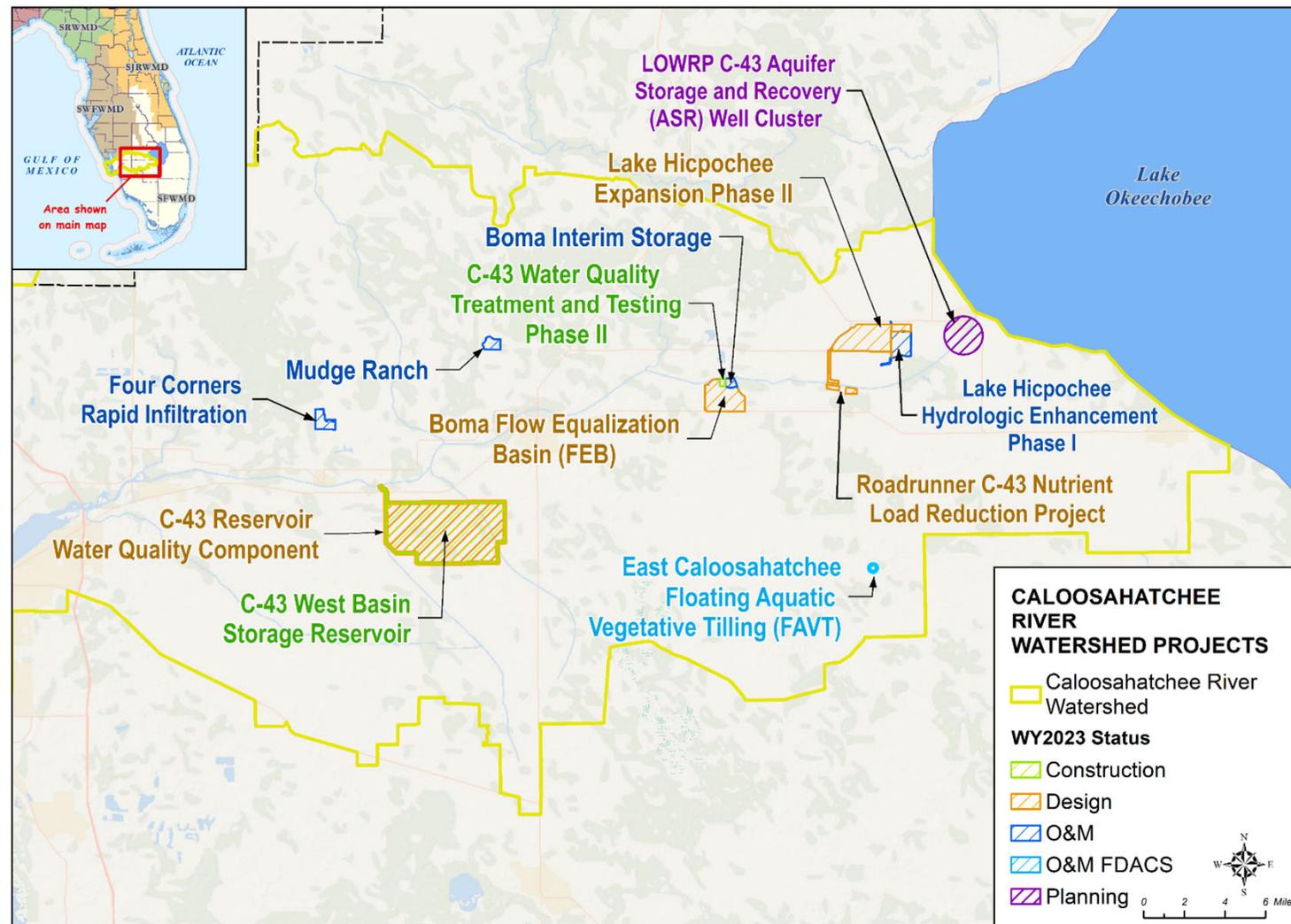
- Description:
 - Restore flows to the Northwest Fork of the Loxahatchee River
 - Restoration of 27,000 acres of freshwater and estuarine wetlands
 - ~1,500 acre impoundment
- Estimated benefits:
 - 9,500 ac-ft storage
 - Re-establish freshwater wetland habitats
 - Improve connectivity for over 78,000 acres of natural areas and restored wetlands



Caloosahatchee River Watershed Projects

➤ 2023 Status:

- 5 projects – planning/design
- 2 projects – construction
- 4 projects – operations



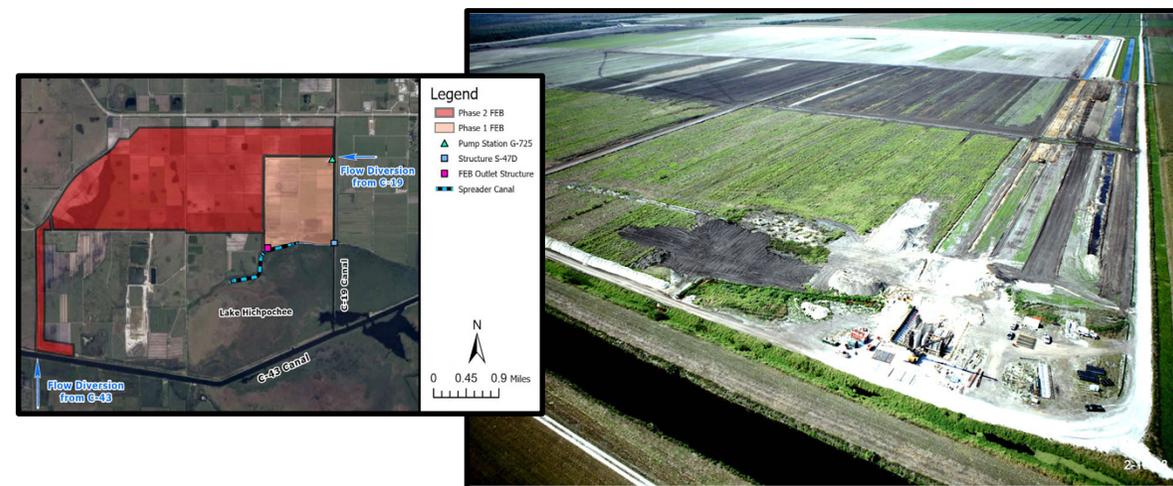
Caloosahatchee River (C-43)

CRW Public Projects



Boma Facility

- Flow Equalization Basin (FEB)
 - 1,796 acre FEB, 7,200 ac-ft/yr expected storage
 - Schedule: Design (2023), Construction (2024-2027), O&M (2028)
- C-43 Water Quality Treatment & Testing Facility
 - Phase II – evaluate effectiveness of constructed wetlands to reduce TN at test-cell scale
 - Schedule: Construction (2023-2024), O&M (2025)

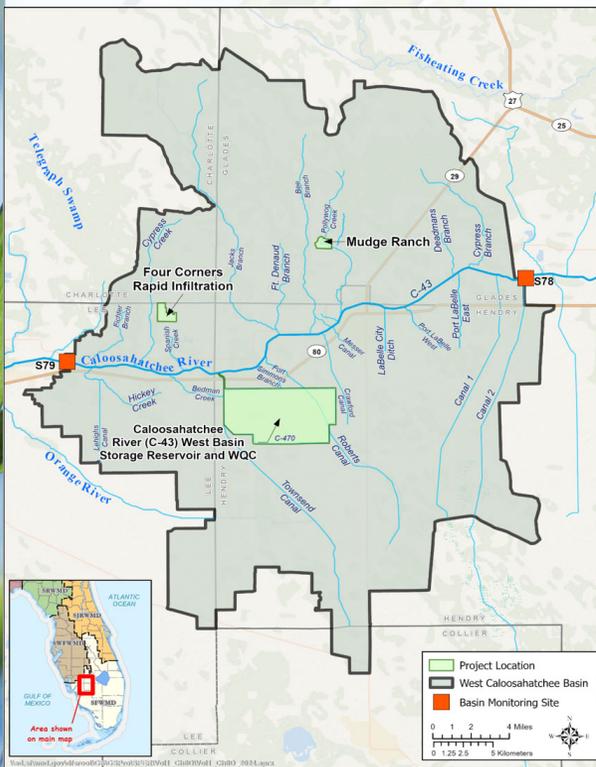


Lake Hicpochee Hydrologic Enhancement

- Shallow water storage with flow diversion
- Phase I - 660 acre Flow Equalization Basin (FEB)
 - WY2023 benefits: stored 1,222 ac-ft/yr, removed 3.1 mt TP and removed 13.4 mt TN
- Phase II – 2,200 acre FEB and pump station
 - Expected Storage: 8,058 ac-ft /yr
 - Schedule: Design (2023), Construction (2024-2026), O&M (2027)

West Caloosahatchee Basin Project Highlight

Four Corners Rapid Infiltration Project

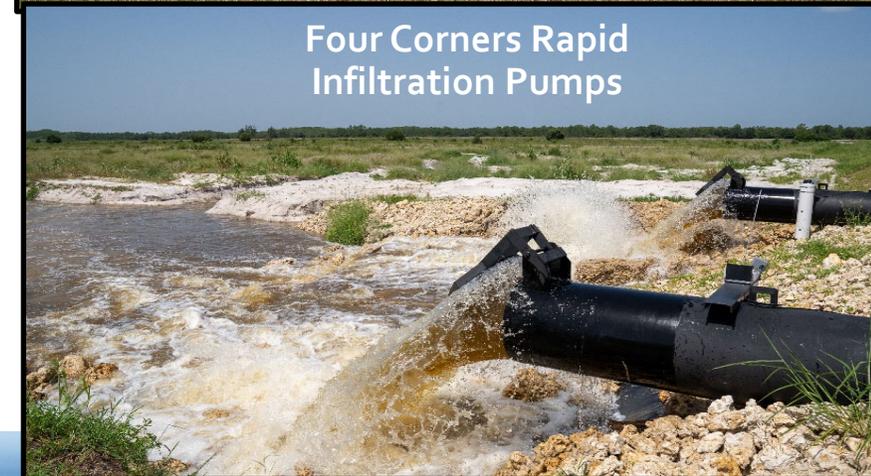


- Water and nutrient retention project:
 - 366-acre above-ground impoundment and water control features
- Estimated benefits (per year):
 - 20,000 ac-ft storage
 - 1.23 mt TP removal
 - 39.4 mt TN removal
- Project has already stored ~9,000 ac-ft since starting operations in June 2023

Project Ribbon Cutting
July 2023



Four Corners Rapid Infiltration Pumps



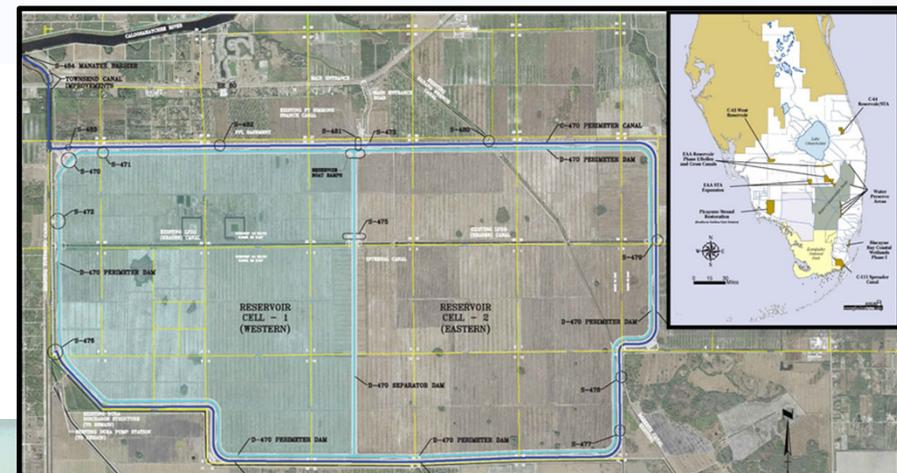


US Army Corps of Engineers

CRW CERP Projects

C-43 West Basin Storage Reservoir

- Aboveground reservoir designed to hold local basin stormwater runoff and releases from Lake Okeechobee
 - 10,700-acre reservoir, depth range from 15 – 25 ft
 - Schedule: In construction
- Estimated benefits (per year):
 - 170,000 ac-ft storage



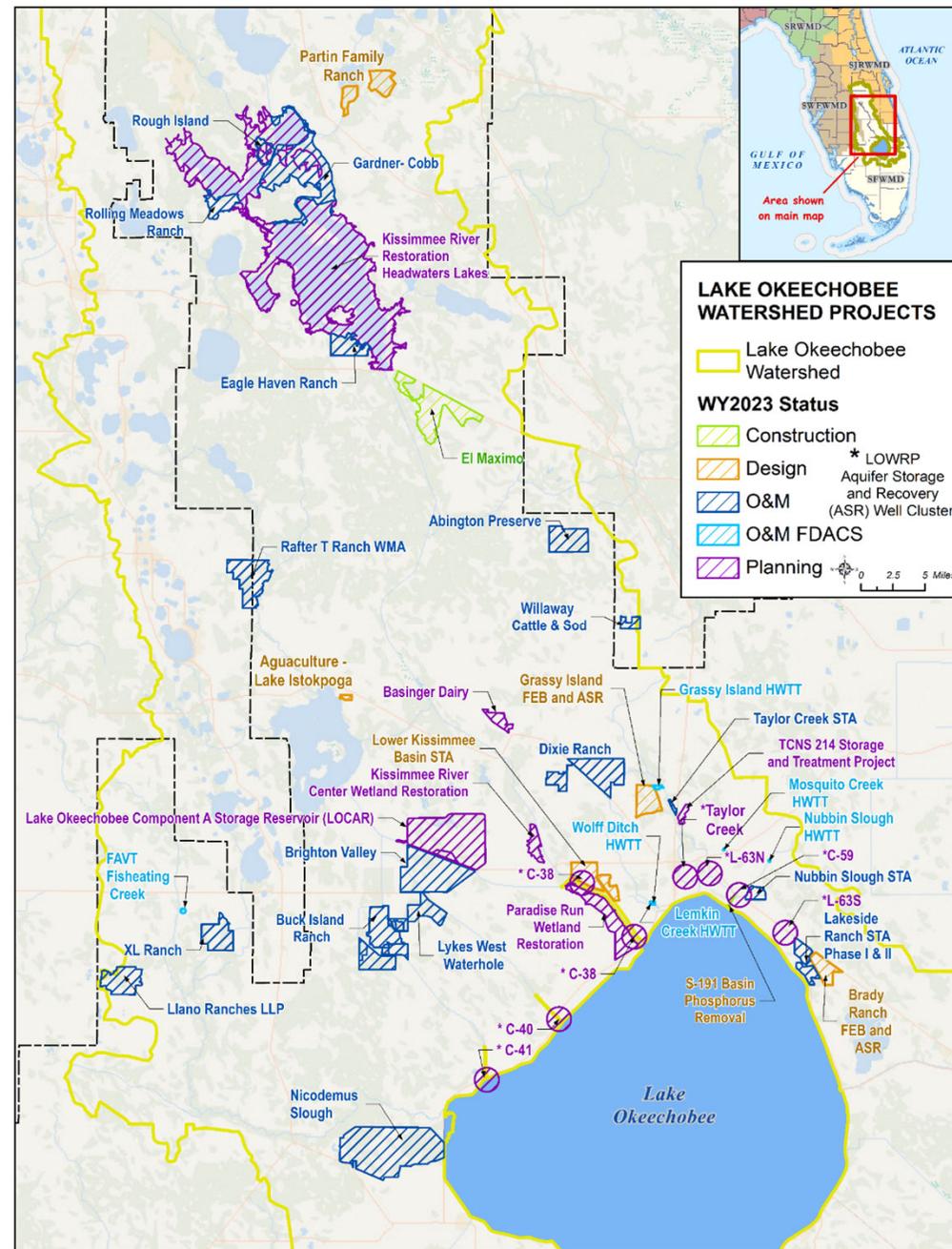
Lake Okeechobee Watershed Projects

➤ 2023 Status:

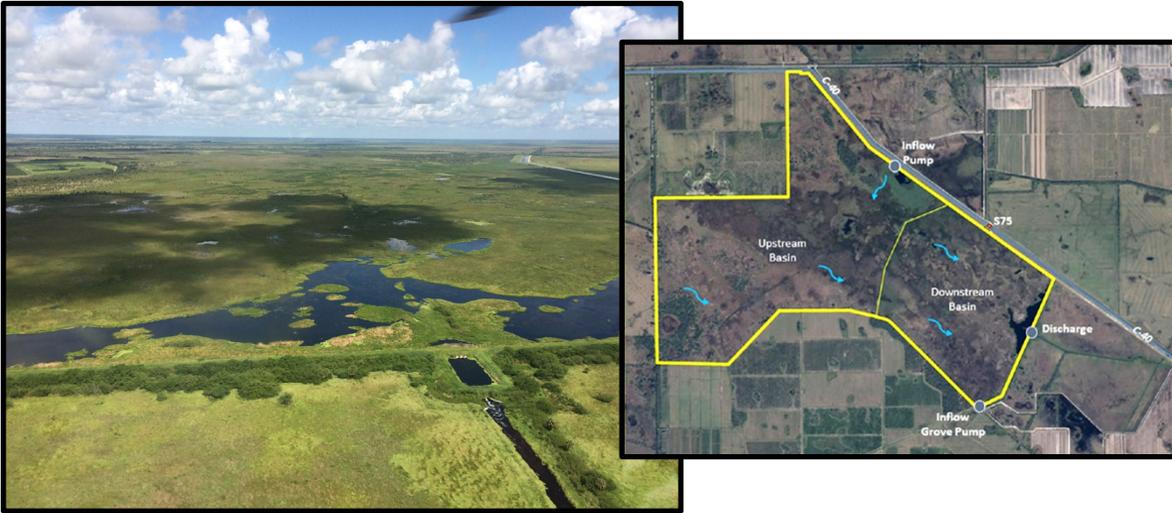
- 11 projects – planning/design
- 1 project – construction
- 17 projects – operations



Lake Istokpoga



LOW Public Private Partnerships



West Waterhole

- Flow-through detention system that attenuates water in two aboveground impoundments.
 - 2,370 acres on private land
- WY2022 benefits:
 - Stored 6,766 ac-ft
 - Removed 2.20 mt TP
 - Removed 18.8 mt TN



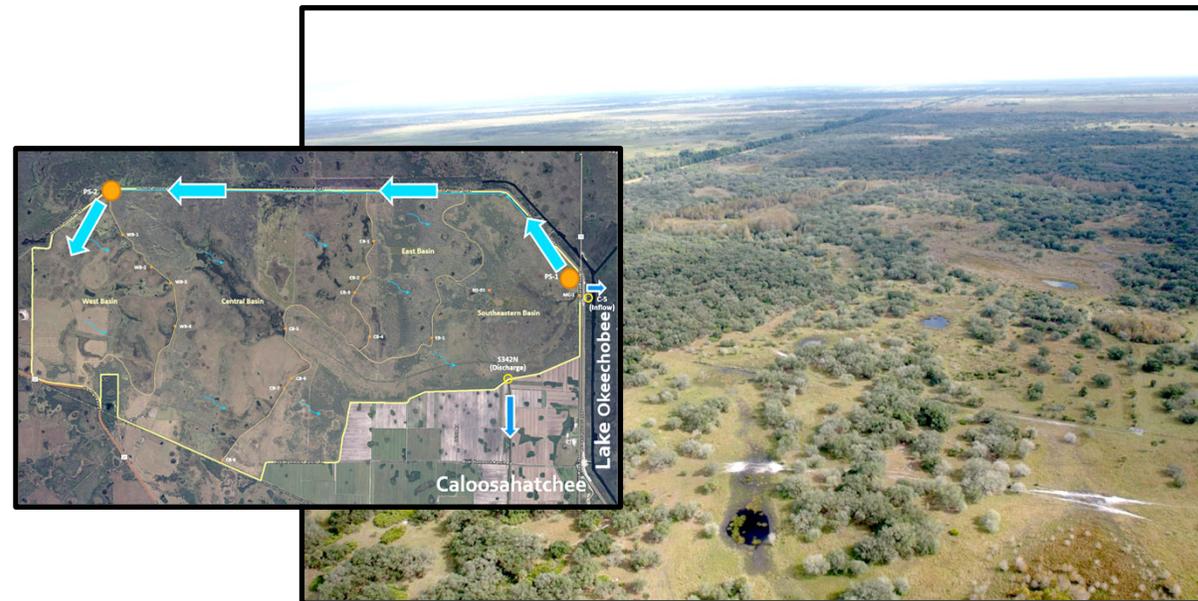
Brighton Valley DWM

- 2 basins that detains and attenuates water for nutrient removal before discharging to the C-40 Canal
 - 8,142 acres on private land, prior ranch land
- WY2023 benefits:
 - Stored 19,151 ac-ft
 - Removed 0.9 mt TP
 - Removed 19.9 mt TN

LOW Public Private Partnerships

El Maximo Ranch

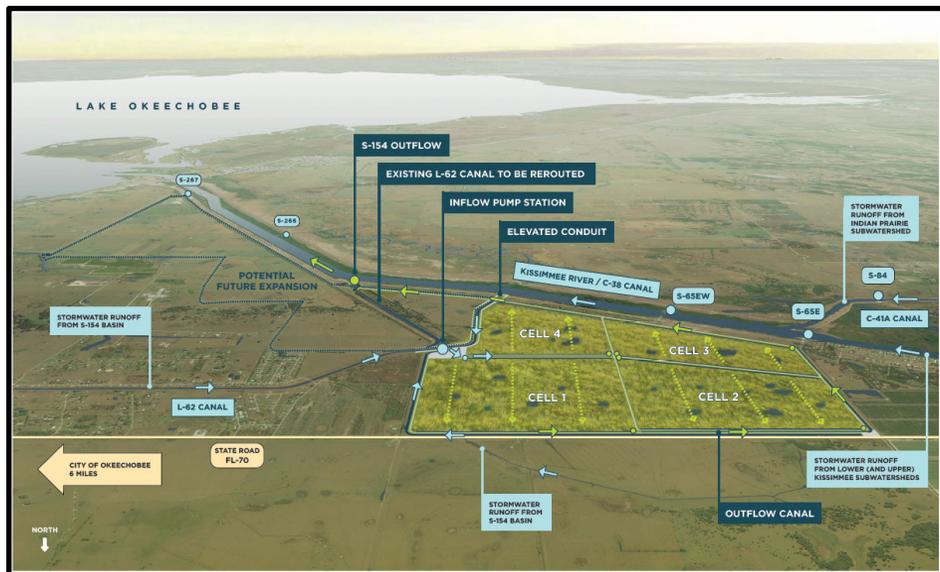
- 8 basins to actively treat and attenuate flow detained from Kissimmee River and Blanket Bay Slough
 - 7,030 acres on private land, prior ranchland
 - Schedule: Construction (2022 – 2024), O&M (2024)
- Estimated benefits (per year):
 - 2,500 ac-ft storage
 - 2.4 mt TP removal
 - 7.0 mt TN removal



Nicodemus Slough

- Basin that actively treats and stores waters from Lake Okeechobee
 - 15,858 acres on private land, prior ranchland
- WY2023 benefits:
 - Stored 31,668 ac-ft
 - Removed 5.0 mt TP
 - Removed 61.3 mt TN

LOW Projects



Lower Kissimmee Basin STA

- Hybrid STA designed to treat stormwater runoff from one of the most nutrient-rich subwatersheds in the LOW and includes innovative technologies
 - 3,350 acres
 - Schedule: In Planning
- Estimated benefits (per year):
 - 3,600 ac-ft storage
 - 14 mt TP removal

Buck Island Ranch

- 4,796-acre passive storage on wetlands/improved areas
- WY2023 benefits:
 - Stored 2,204 ac-ft
 - Removed 0.9 my TP
 - Removed 9.1 mt TN



Dixie Ranch

- 3,063-acre passive storage on private ranchland
- Estimated benefits: 315 ac-ft/year storage

S-191 Basin Project Highlight

Lakeside Ranch STA

- Stormwater Treatment Area
 - 2,000 acres, 8 cells
 - Completed in 2021
- Performance - WY2023 benefits :
 - Stored 6,433 ac-ft
 - Removed 14.9 mt TP
 - Removed 26.6 mt TN



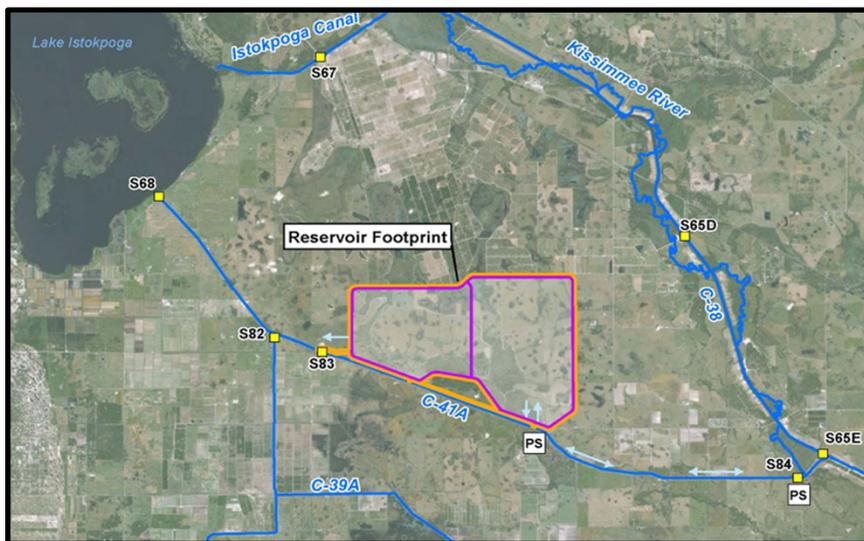


US Army Corps of Engineers

LOW CERP Projects

North of Lake Okeechobee Storage Reservoir

- Description:
 - Stores and releases excess water at times when it is beneficial for the region
 - 12,000 acres - 2 cells with an average depth of 19ft
- Expected benefits (per year):
 - 200,000 ac-ft storage



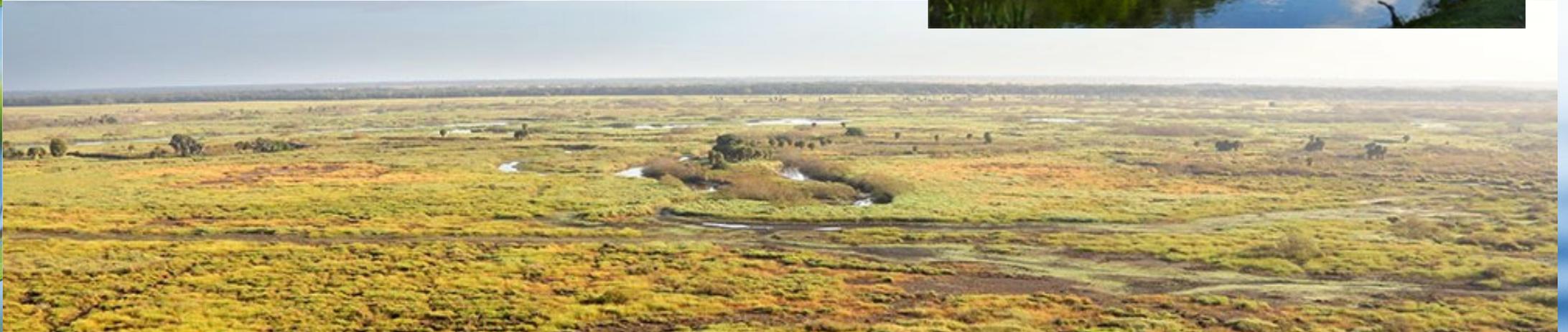
Lake Okeechobee Watershed Restoration

- Description:
 - 2 Wetland Restoration Projects
 - 55 Aquifer Storage & Recovery Wells (ASR)
- Expected benefits:
 - Restores 4,800 acres of wetland habitat
 - Improves Lake stage levels
 - Reduces discharges to the northern estuaries

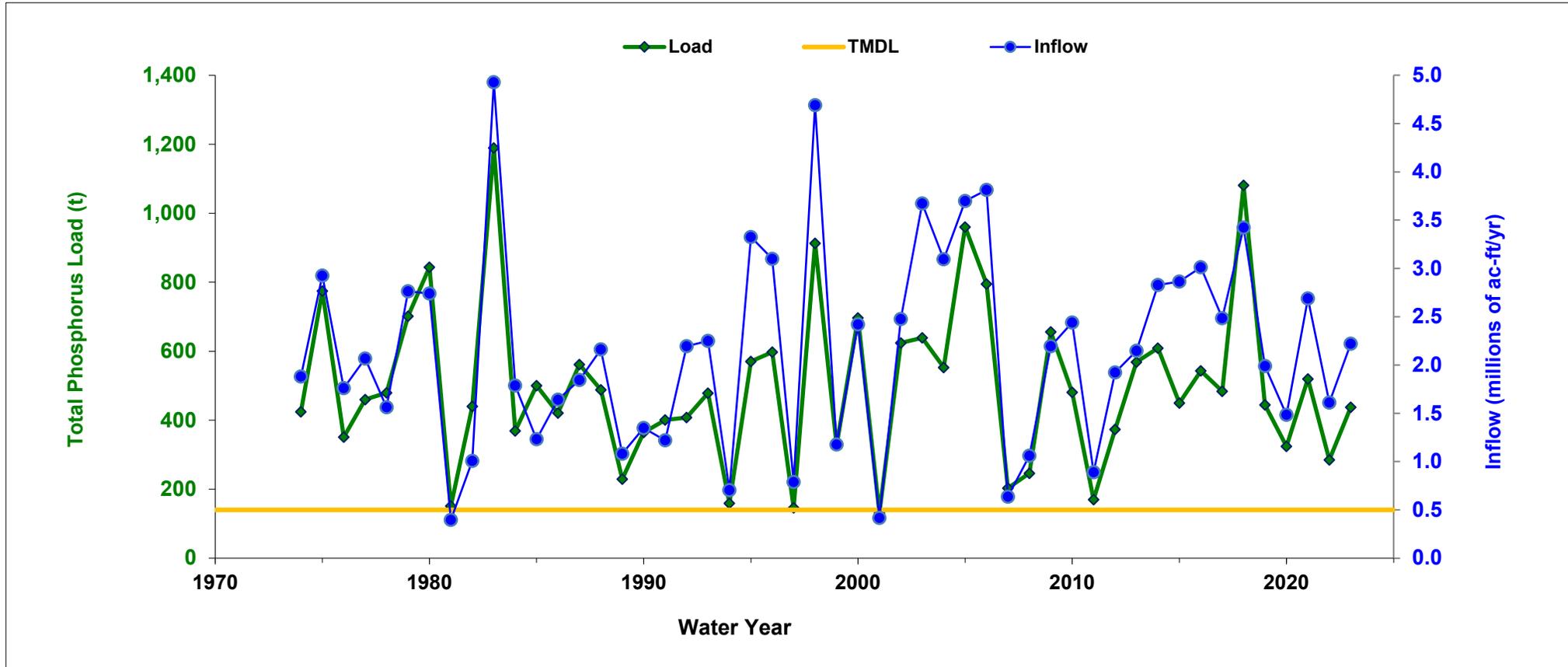


NEEPP Strategic Objectives

- Advancing Governor's priority projects
- Maximizing use of water storage features
- Implementing solutions for water quality
- Reduce likelihood of harmful algal blooms
- Improve waters entering Lake Okeechobee and Northern Estuaries
- Setting milestones to meet storage and treatment goals



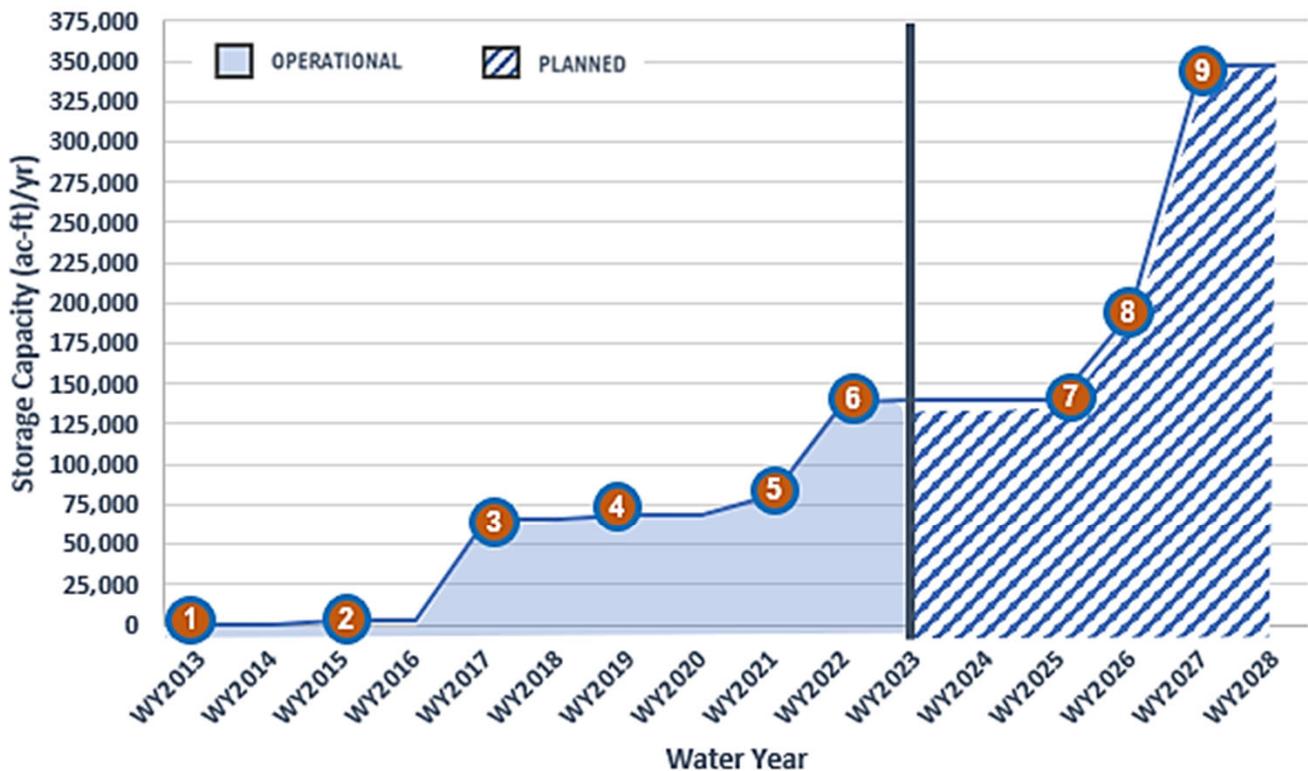
Lake Okeechobee - TP Load



Timelines of water year TP load and inflow entering Lake Okeechobee from its tributaries calculated from the TP budget of Lake Okeechobee.

NEEPP Status of Goals - SLRW

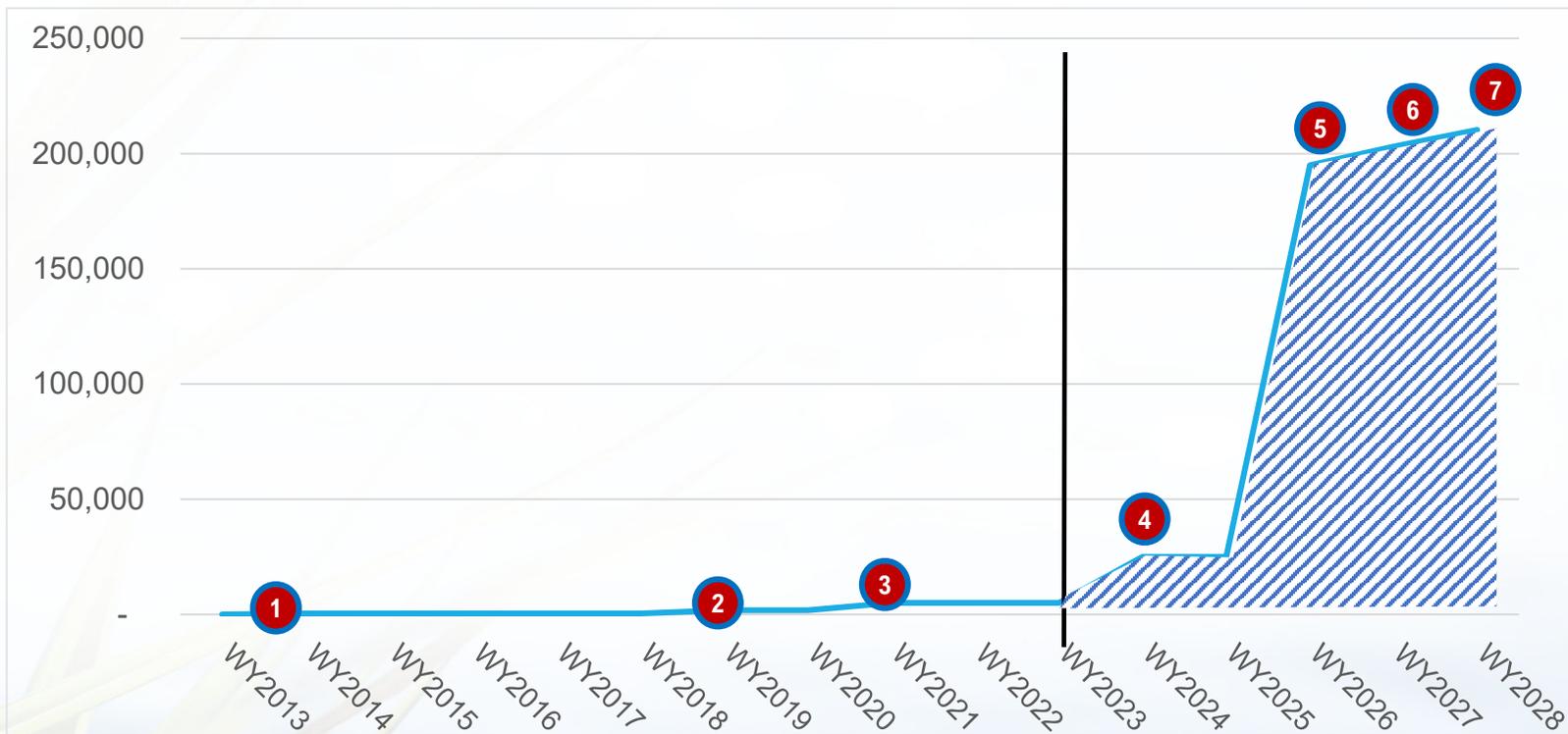
STORAGE GOALS



- 1 ALDERMAN-DELONEY RANCH
ADAMS-RUSSAKIS RANCH
- 2 BULL HAMMOCK RANCH
SPUR LAND & CATTLE
- 3 CAULKINS WATER FARM
TEN MILE CREEK WPA
- 4 C-23/C-24 INTERIM SECTION C
- 5 ALLAPATTAH PARCELS A & B
- 6 BLUEFIELD GROVE
SCOTT WATER FARM
- 7 IDEAL 1000
- 8 C-23 ESTUARY DISCHARGE
DIVERSION CANAL
C23/C24 DISTRICT LANDS
HYDROLOGIC ENHANCEMENTS
- 9 C-44 RESERVOIR & STA
C-23/24 STA

NEEPP Status of Goals - CRW

STORAGE GOALS



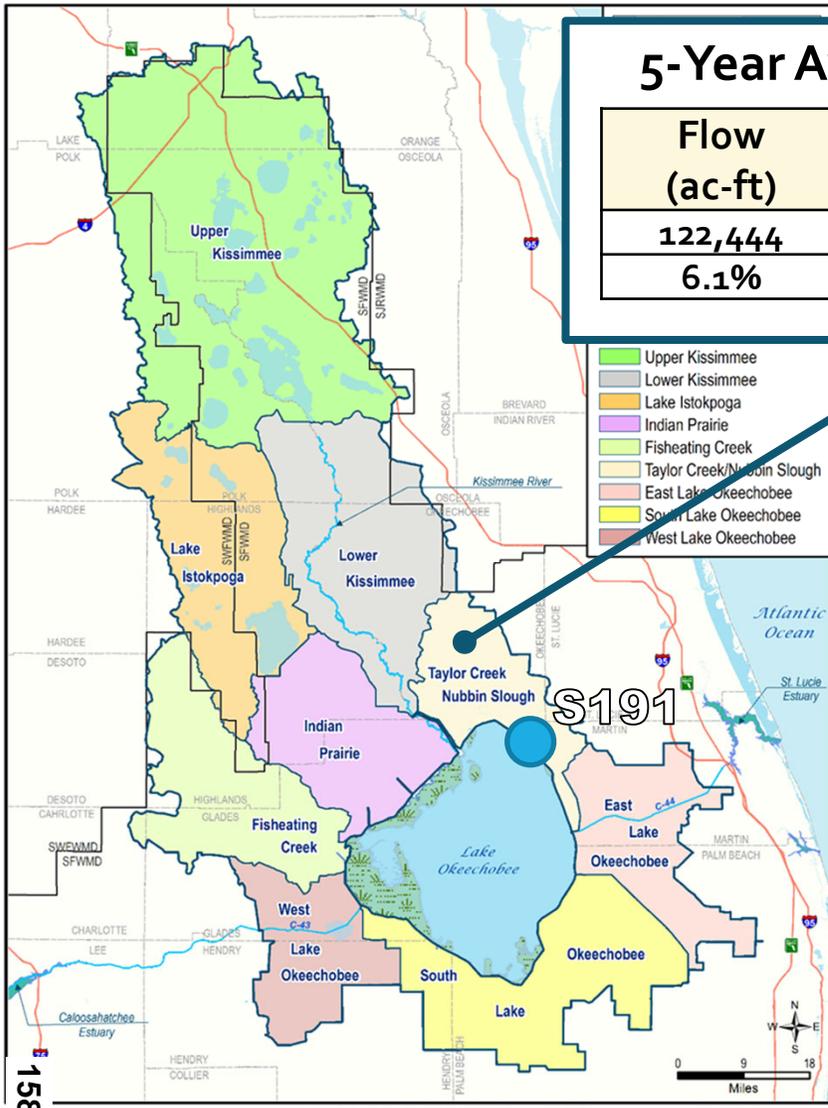
- 1 MUDGE RANCH
- 2 BOMA INTERIM STORAGE
- 3 LAKE HICPOCHEE HYDROLOGIC ENHANCEMENT (PHASE 1)
- 4 FOUR CORNERS RAPID INFILTRATION
- 5 C-43 WEST BASIN STORAGE RESERVOIR
- 6 LAKE HICPOCHEE HYDROLOGIC ENHANCEMENT (PHASE 2)
- 7 BOMA FEB

NEEPP Status of Goals - LOW

STORAGE GOALS

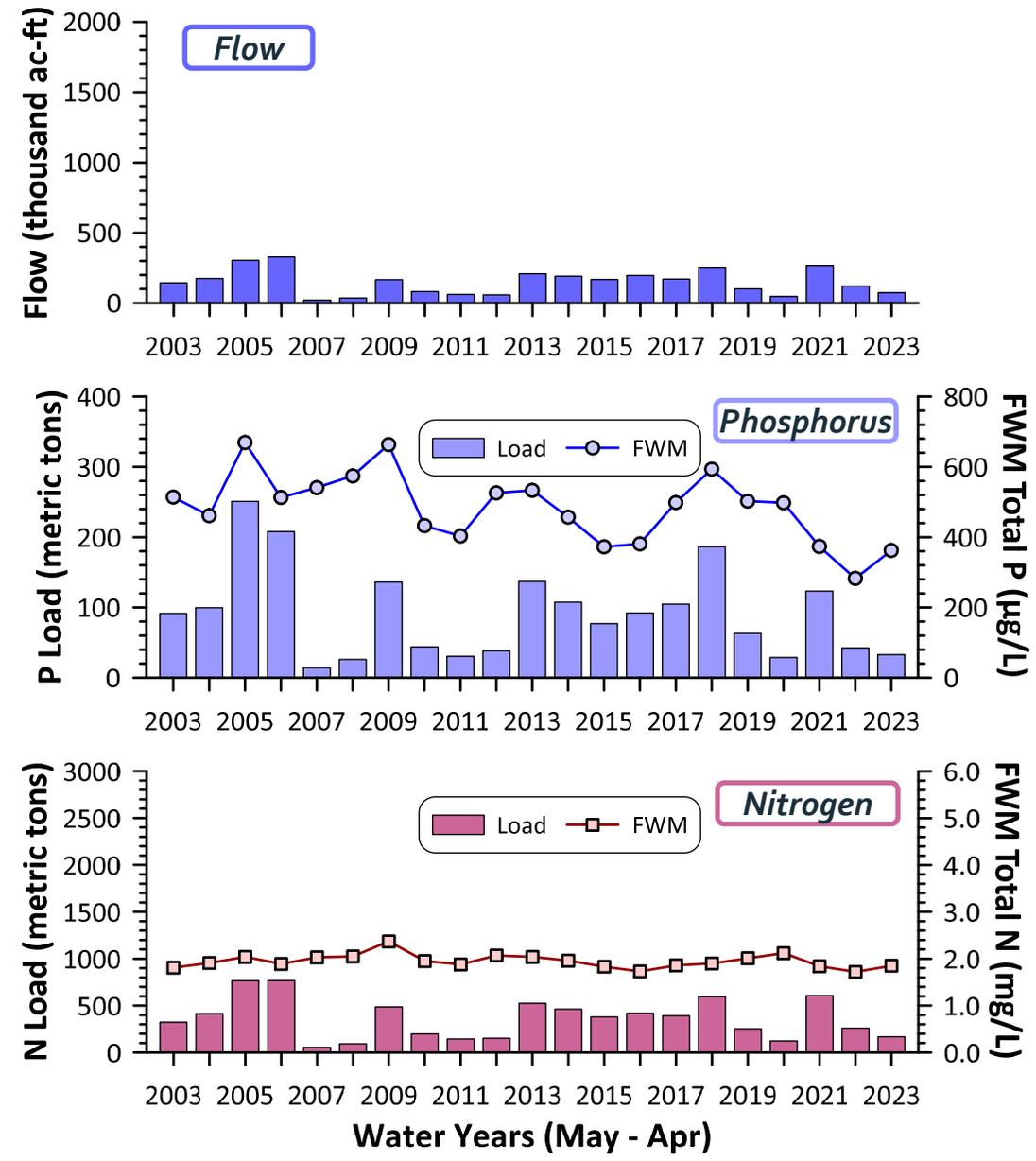


Taylor Creek Nubbin Slough Subwatershed



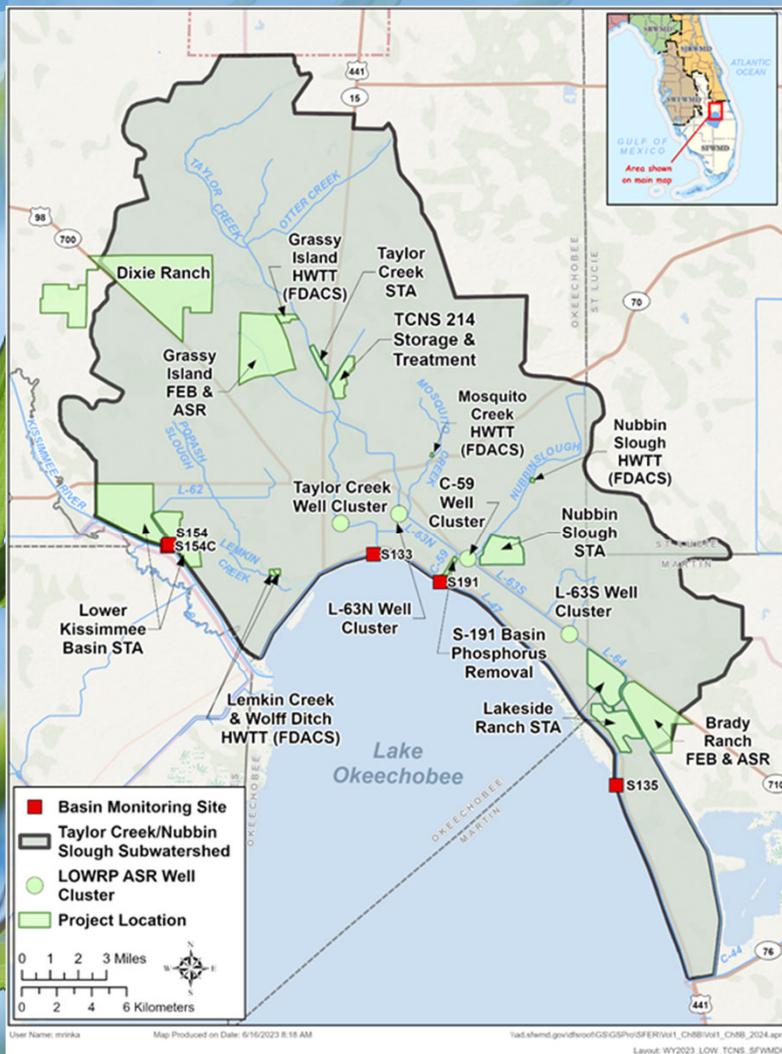
5-Year Average (2019 – 2023)

Flow (ac-ft)	P Load (metric tons)	N Load (metric tons)
122,444	58 (385)*	282 (1.87)*
6.1%	15.8%	7.2%



*FWMTP (in µg/L) and TN (in mg/L)

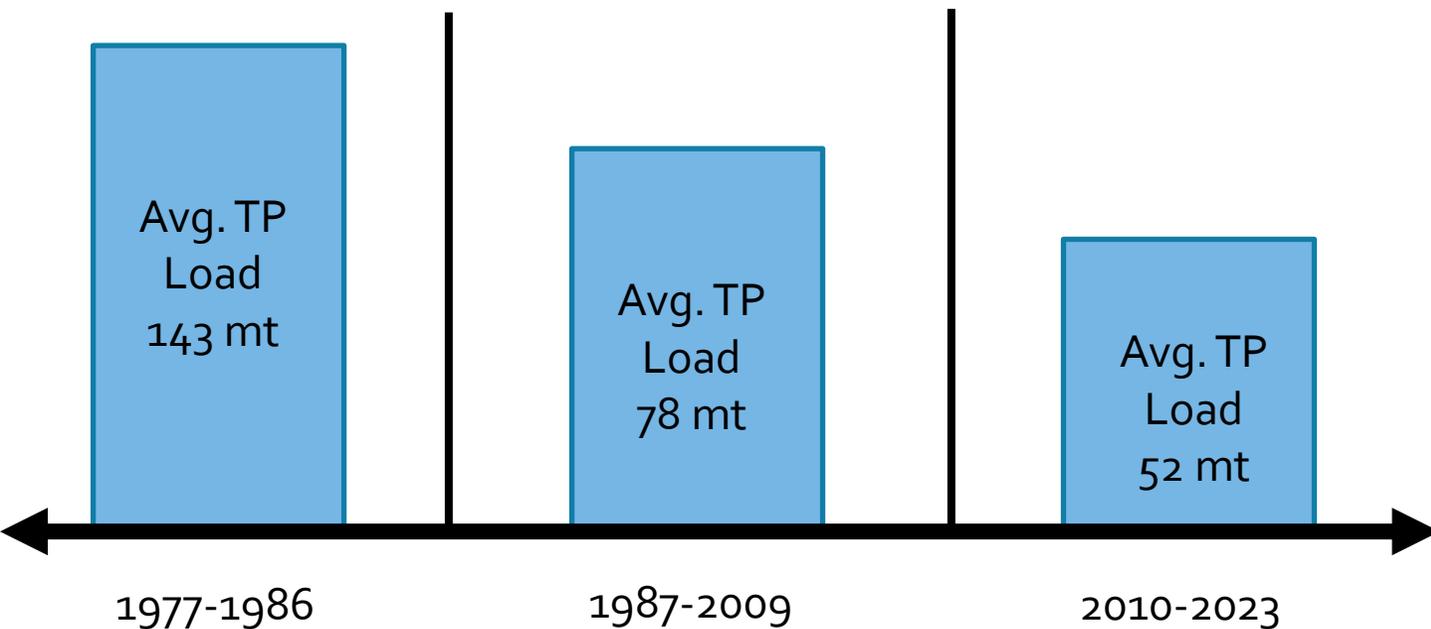
Taylor Creek Nubbin Slough Subwatershed



- Significant effort to implement and operate projects over time
- Multiple projects in planning and design phase
- 3 Functional STAs
 - Removed more than 17.5 t of TP and 38 t of TN in WY2023
- +72,000 ac-ft storage in WY2023

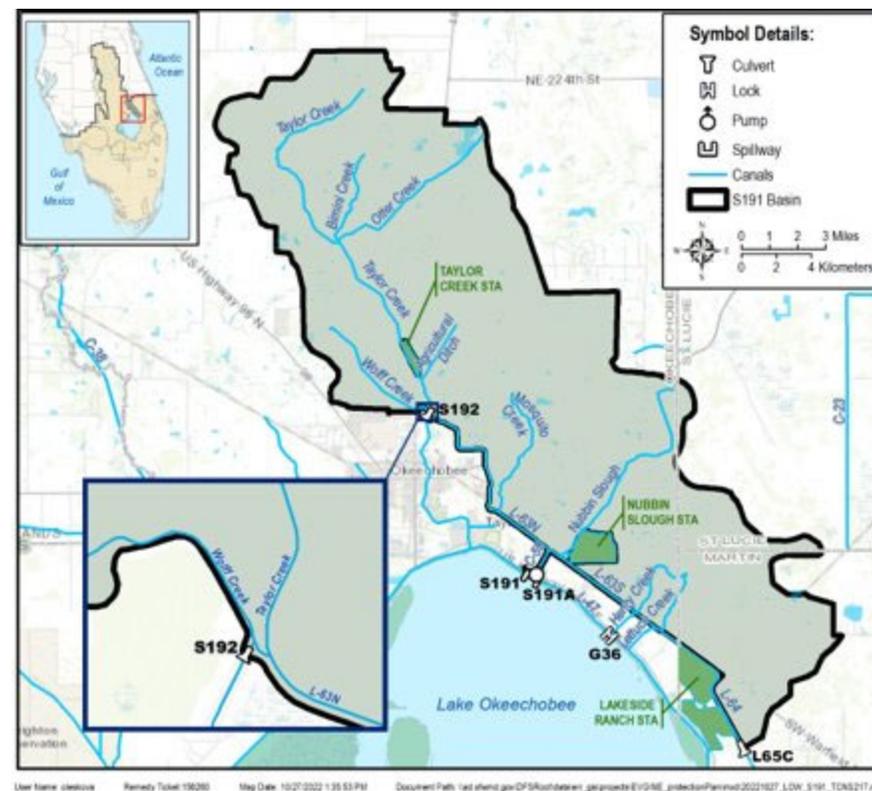
S-191 Basin Highlight

Total Phosphorus Loads



- 1987 - initial Northern Everglades activities
- 2010 - 6 years after initial LOWPP

	Time Period		
	1977- 1986	1987 - 2009	2010 - 2023
Average TP Concentrations ($\mu\text{g/L}$)	981	654	562
Source Control Programs and Projects	0	14	9



Next Steps

- Engage the public
- Foster partnerships
- Identify new project opportunities
- Explore new technologies
- Optimize existing projects
- Set goals and track progress



Together we can move the needle on Everglades Restoration and preserve our wonderful natural resources for future generations.

Public Comment

If you're participating in person –
please fill out a comment card and
give to a meeting attendant

If you're participating via Zoom –
use the Raise Hand feature

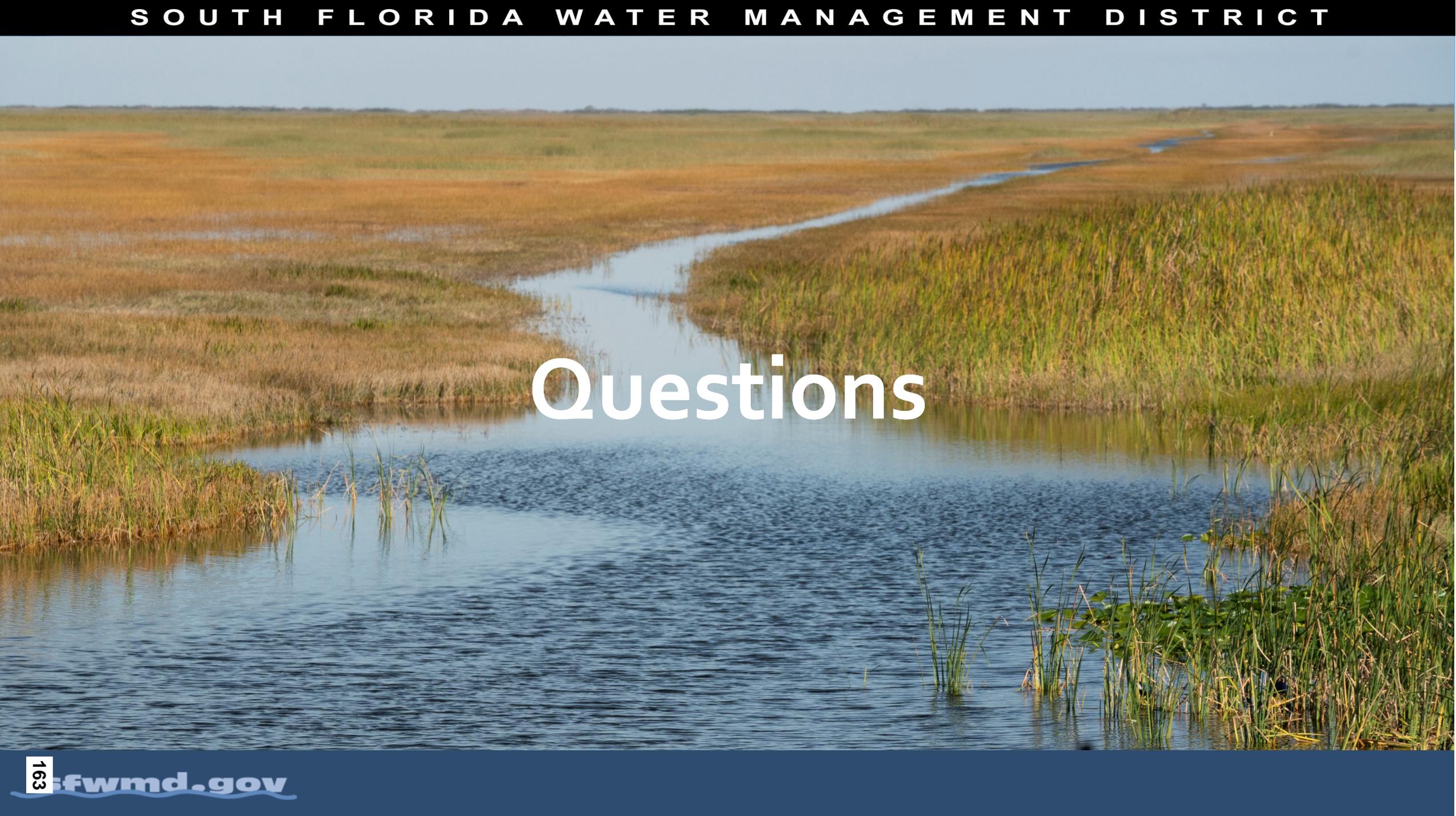
If you're participating via Phone –

*9 Raises Hand

*6 Mutes/Unmutes



3:00



Questions

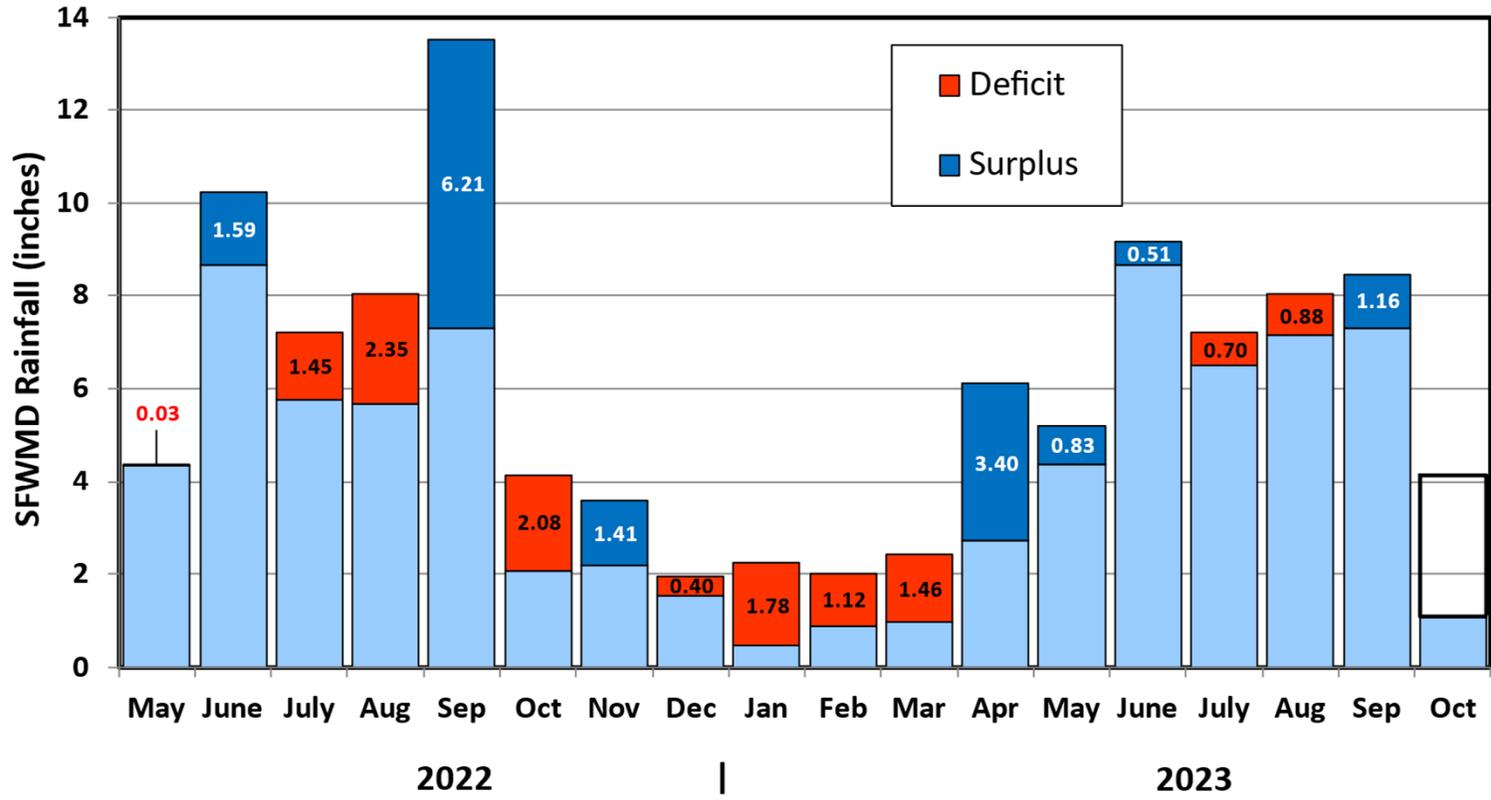
Water Conditions Summary

**South Florida Water Management District
Governing Board Meeting
October 12, 2023**



John P. Mitnik, PE
Chief District Engineer
Assistant Executive Director

SFWMD Rainfall Distribution Comparison (May 2022 - October 2023)



District Wide Average Rainfall

Month	Average (inches)
Jan	2.24
Feb	2.01
Mar	2.43
Apr	2.71
May	4.37
Jun	8.65
Jul	7.20
Aug	8.03
Sep	7.31
Oct	4.15
Nov	2.18
Dec	1.94

} Wet Season

2022 WET SEASON

- Started 5/13/2022 – Ended 9/28/2022
- May ~ 100%, Jun ~ 120%, Jul ~ 80%, Aug ~ 65%
- Sep 2022 total 13.52", 191% of Normal
- Sep 26-29, Hurricane Ian ~ 5.3"

2022-2023 DRY SEASON

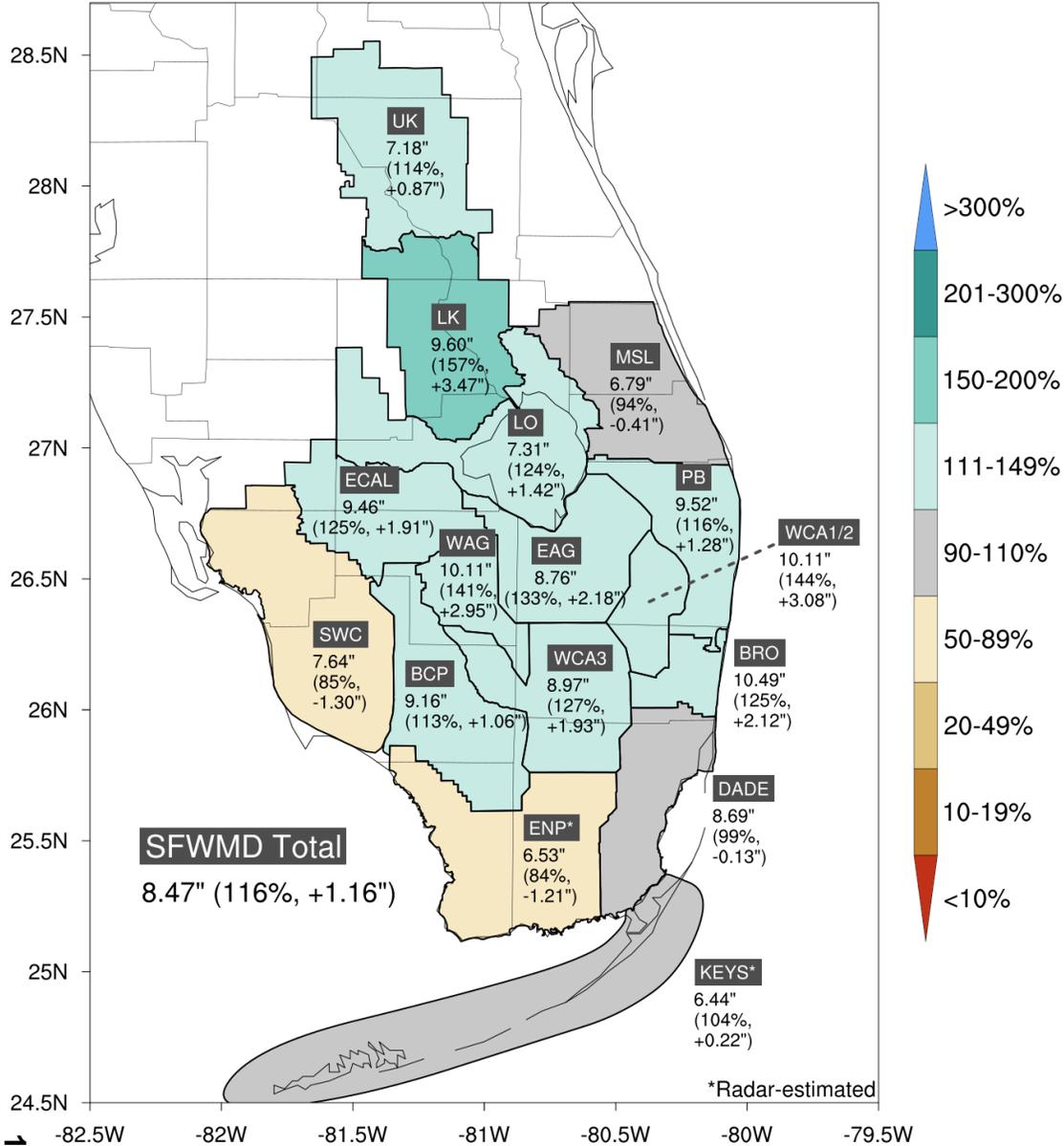
- Started 9/29/2022 and ended 5/13/2023
- Including October, 5/6 full months are below Normal
- 4/6 full months are more than 50% below Normal
- April was ~ 225% normal.

2023 WET SEASON

- Started 5/14/2023
- May, June and September were above Normal
- July and August were below Normal
- 10% above Normal overall

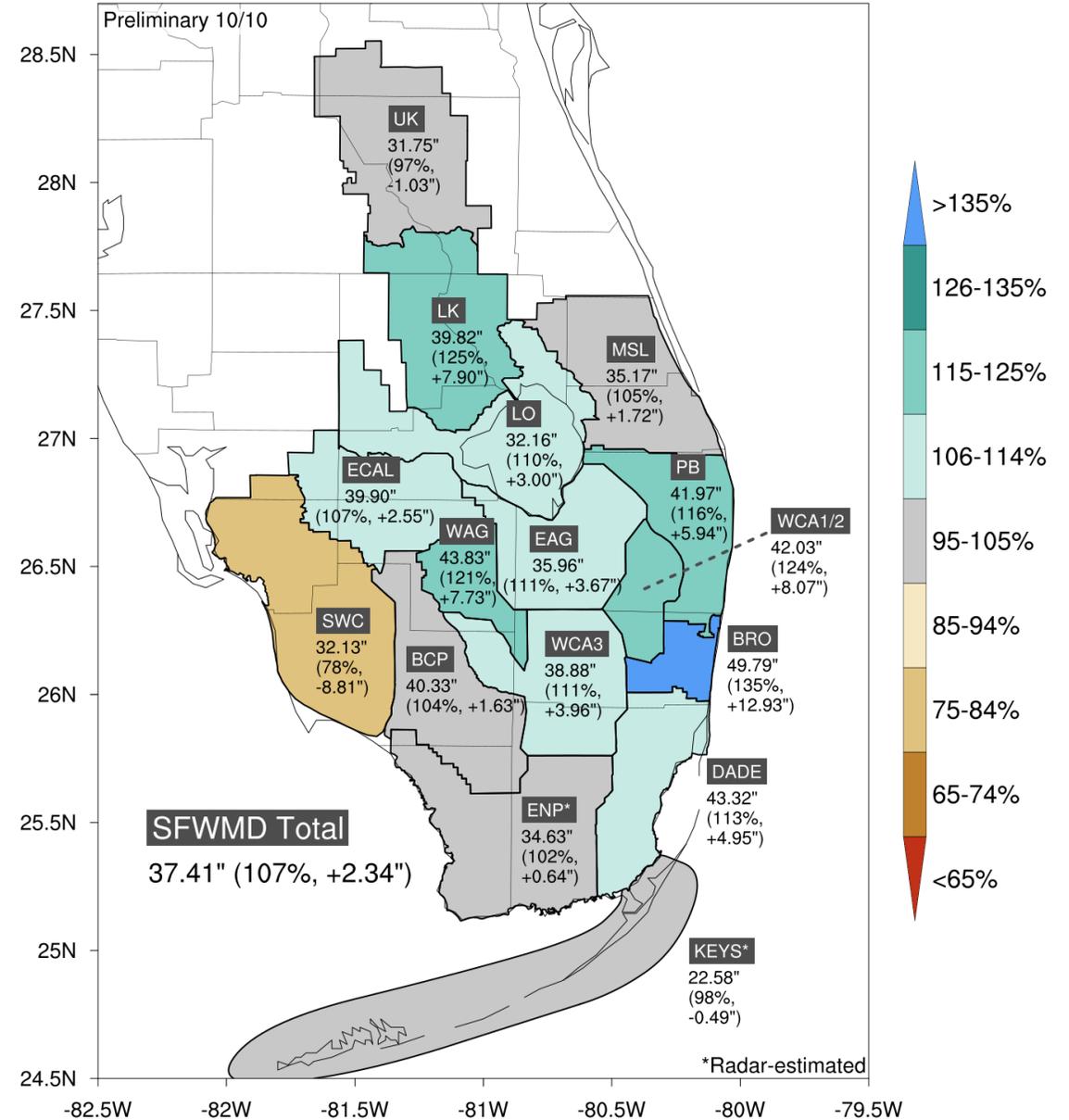
September 2023

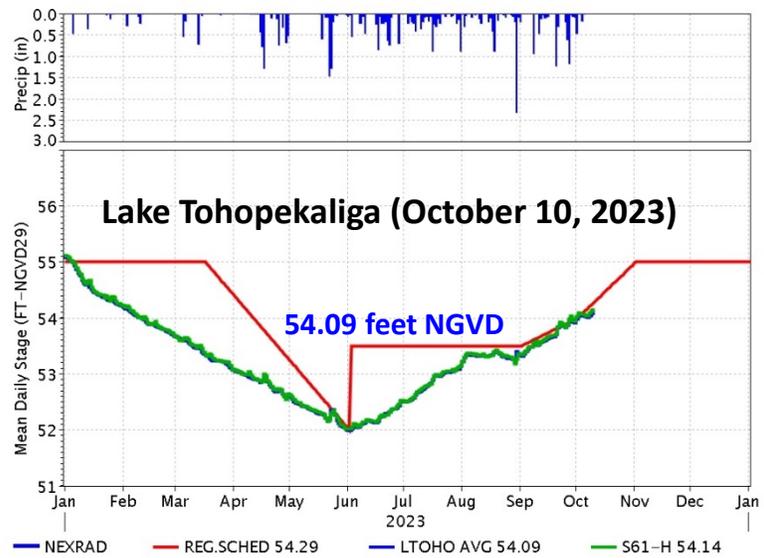
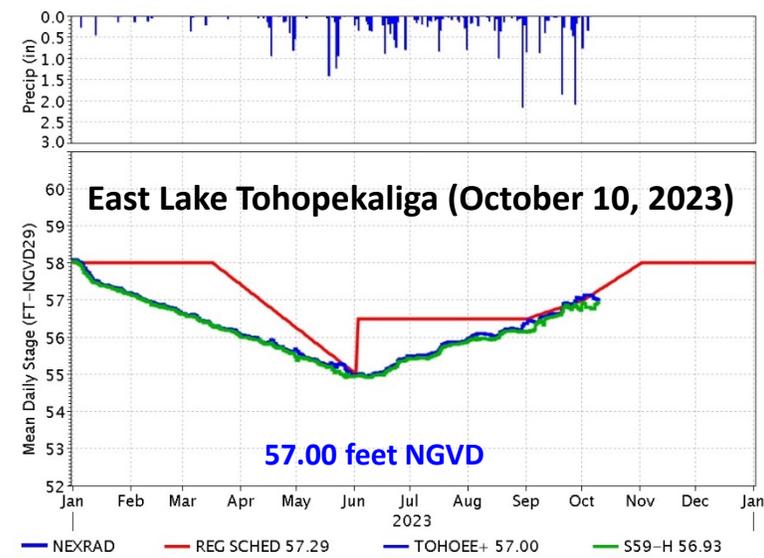
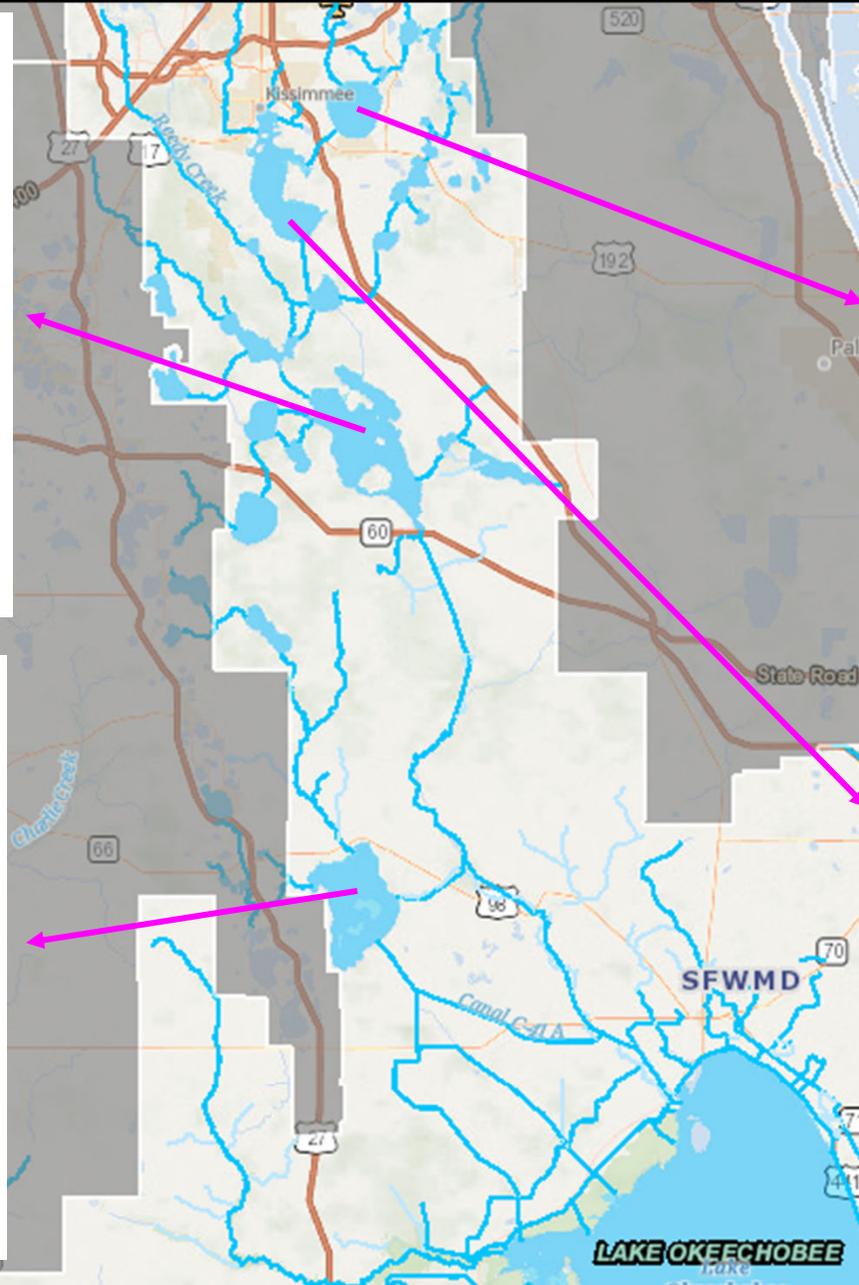
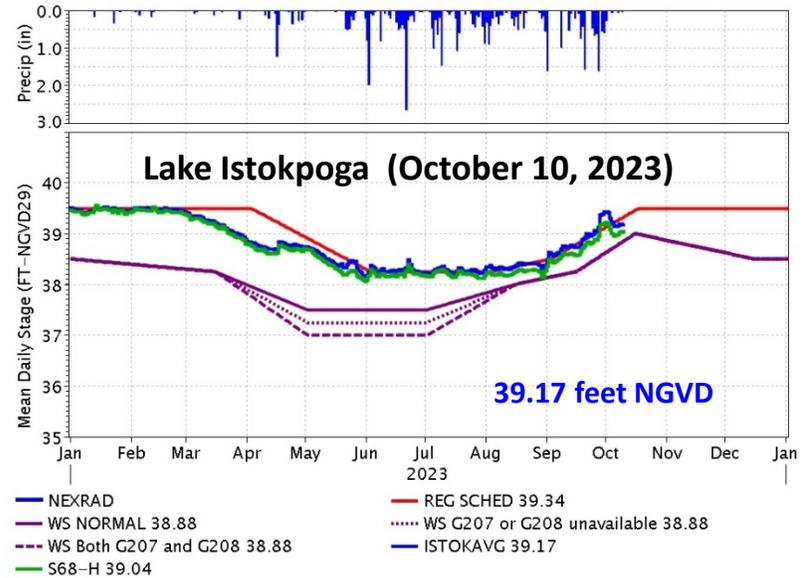
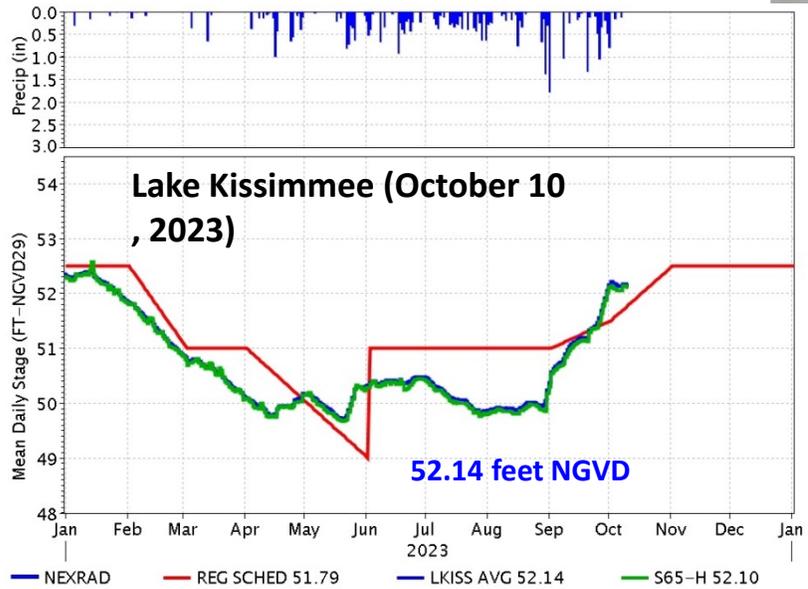
Rainfall, Percent of Normal, and Departures



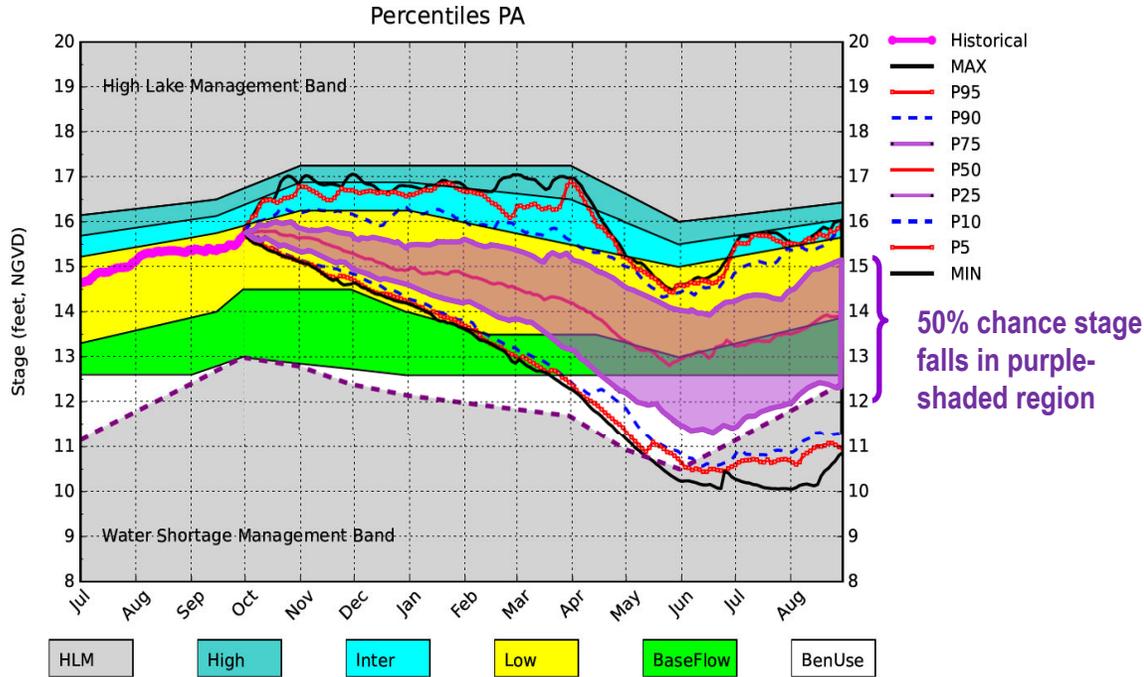
2023 Dynamic Wet Season (5/14/23 to 10/10/23)

Rainfall, Percent of Normal, and Departures





Lake Okeechobee SFWMM October 2023 Position Analysis



(See assumptions on the Position Analysis Results website)

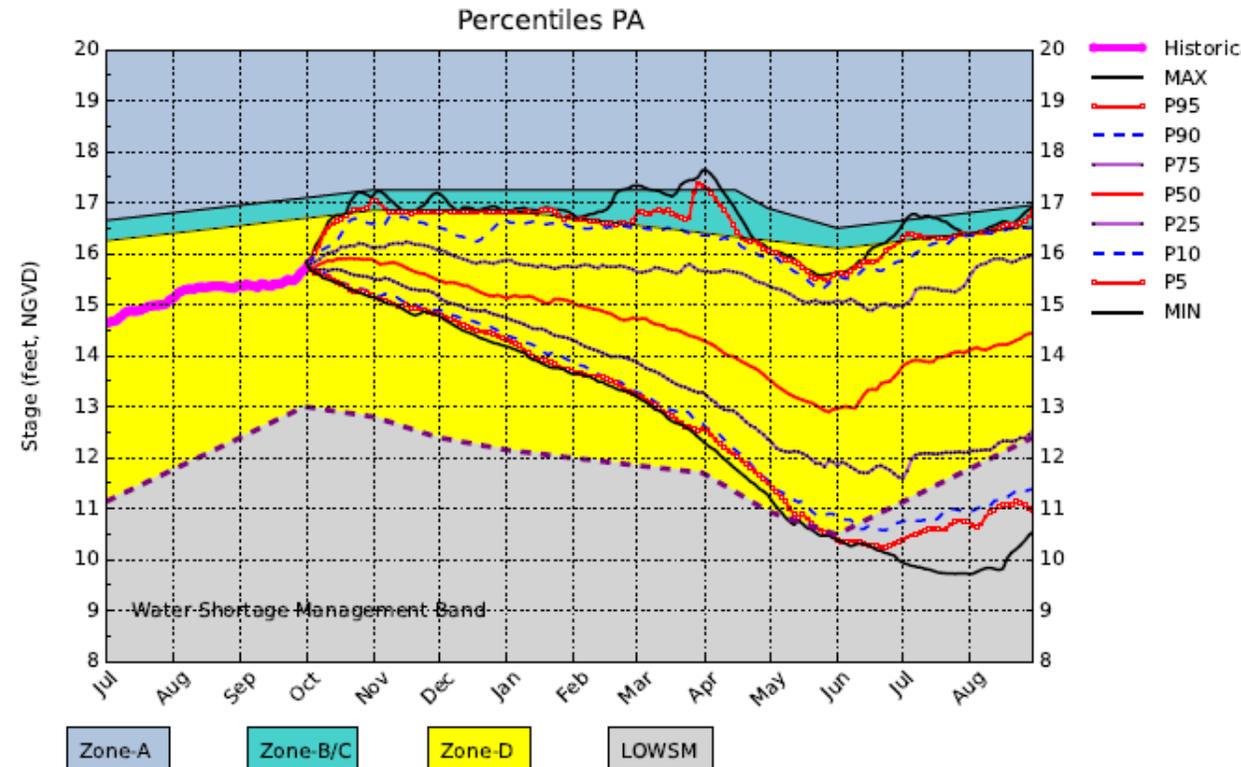
10/05/23 13:09:16

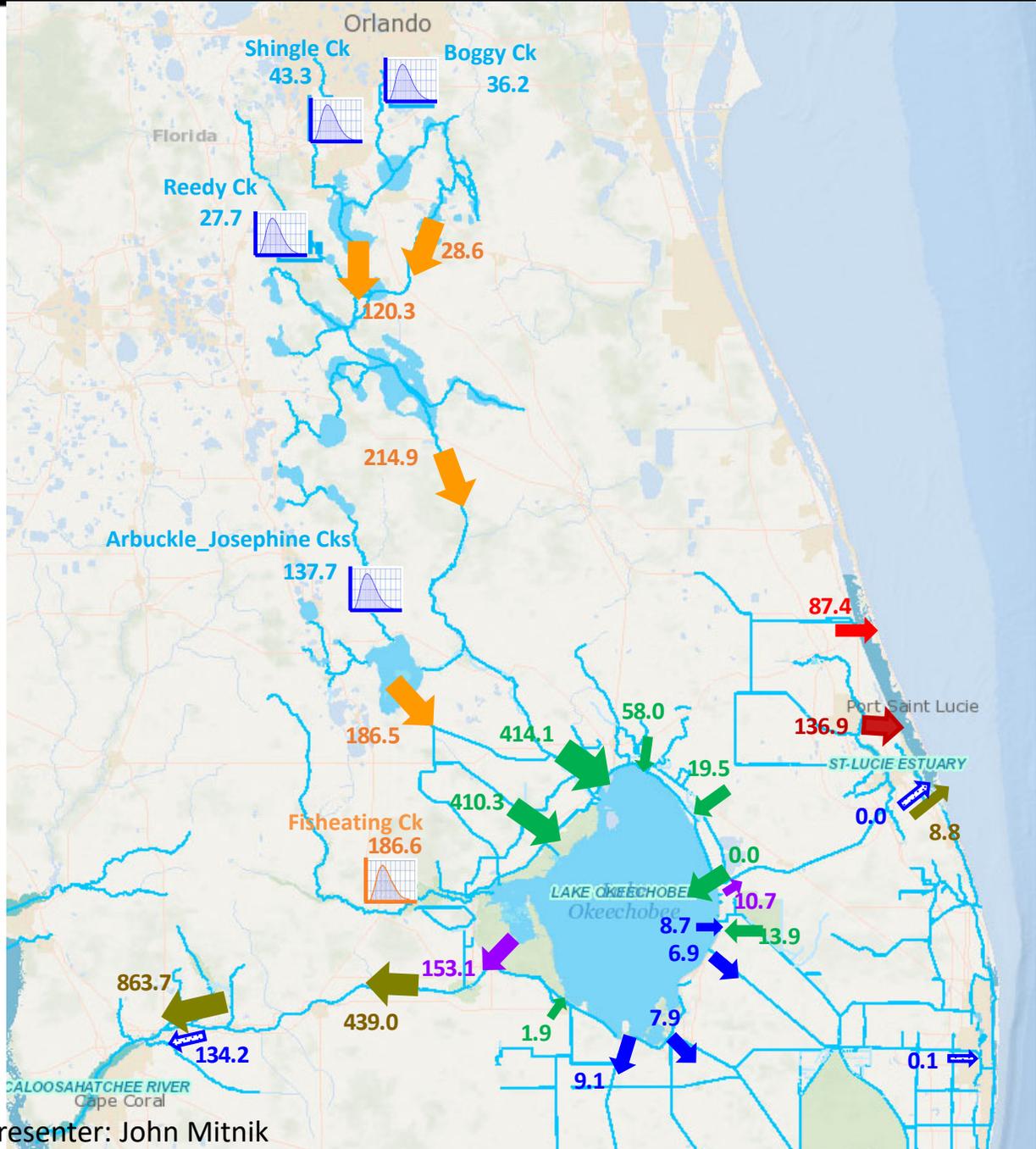
↑
Current Lake Okeechobee Regulation Schedule (LORS2008)

Provisional Tool Under Development for the Proposed July 2023 Water Control Plan (LOSOM PA25)



Lake Okeechobee SFWMM October 2023 Position Analysis





SFWMD – Selected Release Volumes for the Period May 1, 2023 to October 10, 2023
(volumes in 1,000 acre-feet)

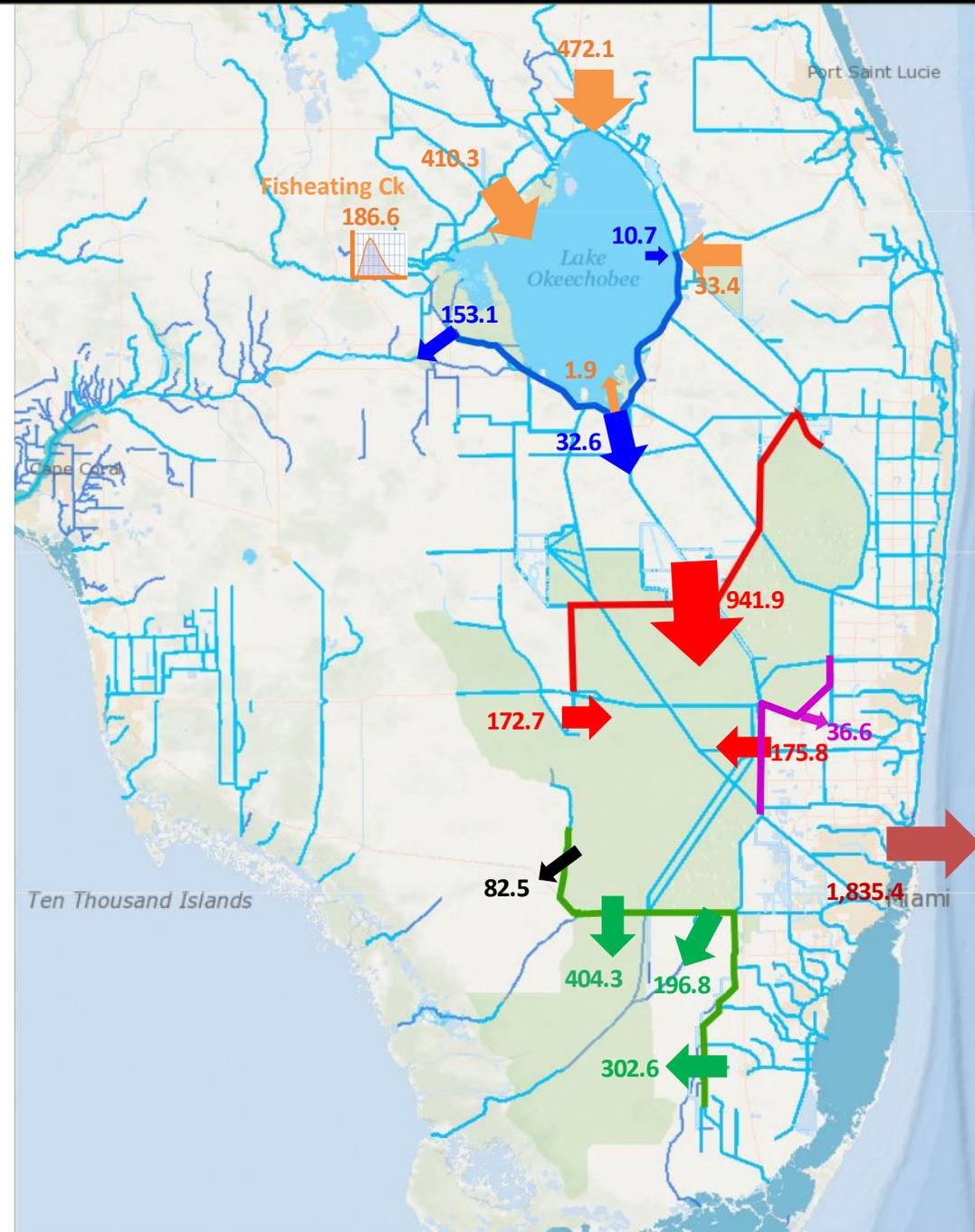
Symbol	Description	Volume (1,000 acre- feet)	
		WYR2024	Last Month
	Upper Kissimmee to Lower Kissimmee	214.9	79.9
	Inflows to Lake Okeechobee (including Fisheating Creek)	1,104.4	338.8
	Lake Releases and Basin Runoff	872.5	229.9
	Lake Releases East and West	163.8	29.7
	Lake Flood Control to Estuaries	134.2	31.6
	Total Lake Releases South	32.6	0.3
	Releases to Indian River Lagoon	87.4	14.6
	Upper East Coast discharges to St. Lucie Estuary	136.9	33.6
	Uncontrolled flows - Creeks (does not include Fisheating Creek)	244.8	101.2

1,000 acre-feet = 325.9 Million Gallons

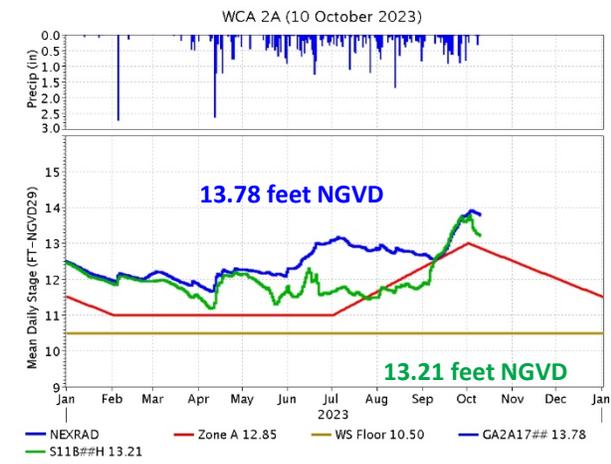
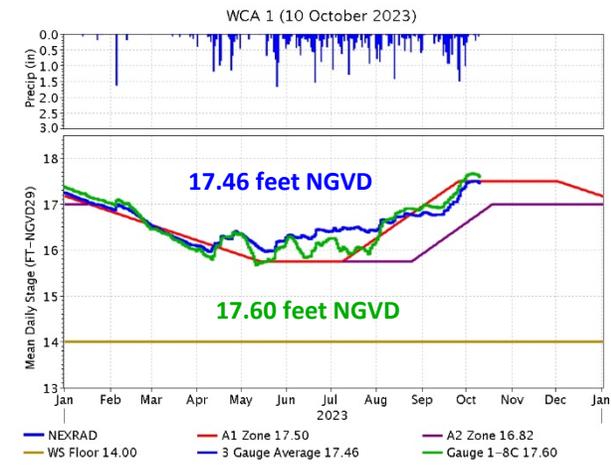
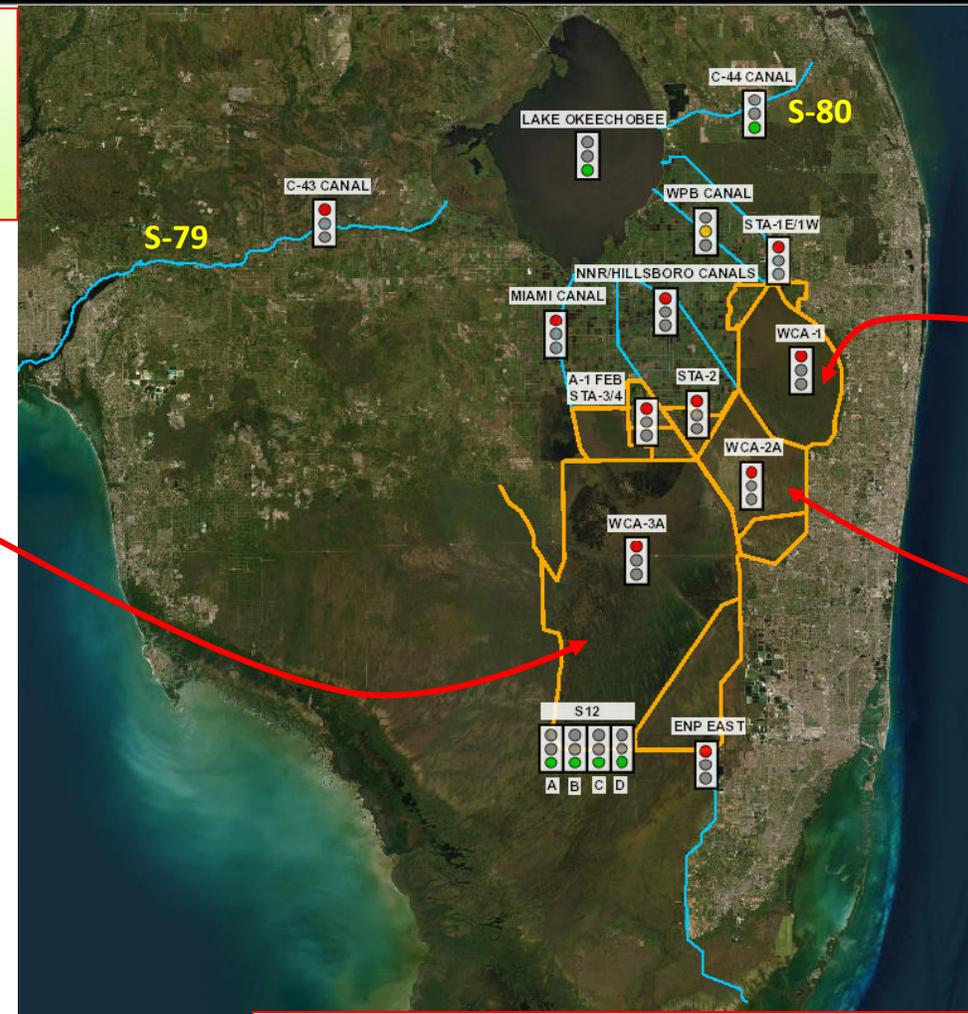
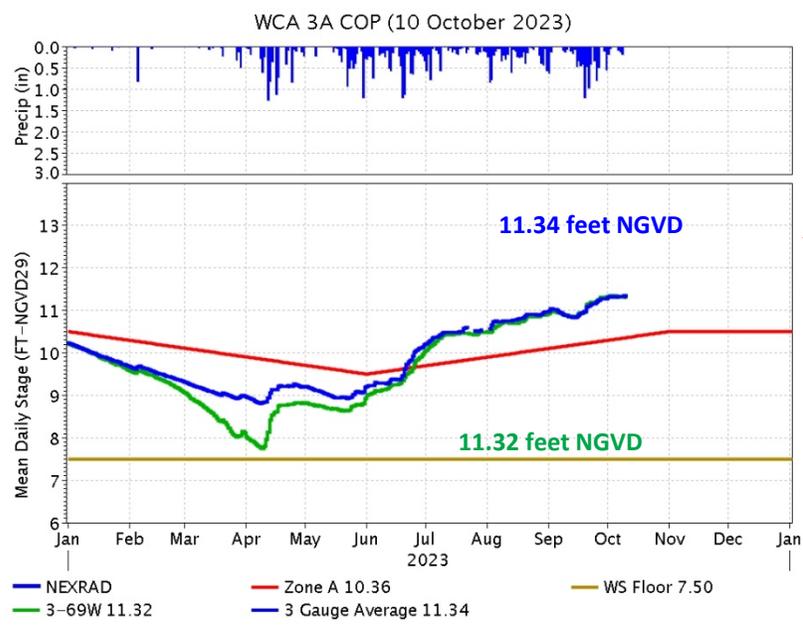
**SFWMD –Volumes Flowing
Down the System for the
Period May 1, 2023 to October 10, 2023**
(volumes in 1,000 acre-feet)

Symbol	Description	Volume (1,000 acre- feet)	
		WYR 2023	Last Month
	Lake Okeechobee Inflows	1104.4	338.8
	Lake Okeechobee Outflows	196.4	30.0
	WCAs Inflows	1290.5	371.8
	ENP / Detention Cell Inflows	903.7	236.7
	WCAs to East	36.6	10.3
	Flows to Intracoastal	1835.4	455.6

1,000 acre-feet = 325.9 Million Gallons



Lake Okeechobee stage is in the Intermediate Sub-band of the LORS-2008 Regulation schedule. LORS release guidance suggests up to Maximum Practicable to the WCAs if all downstream WCAs below max of schedule + 0.25 ft.; otherwise, no releases to WCAs. S-77 up to 4,000 cfs and S-80 up to 1,800 cfs.

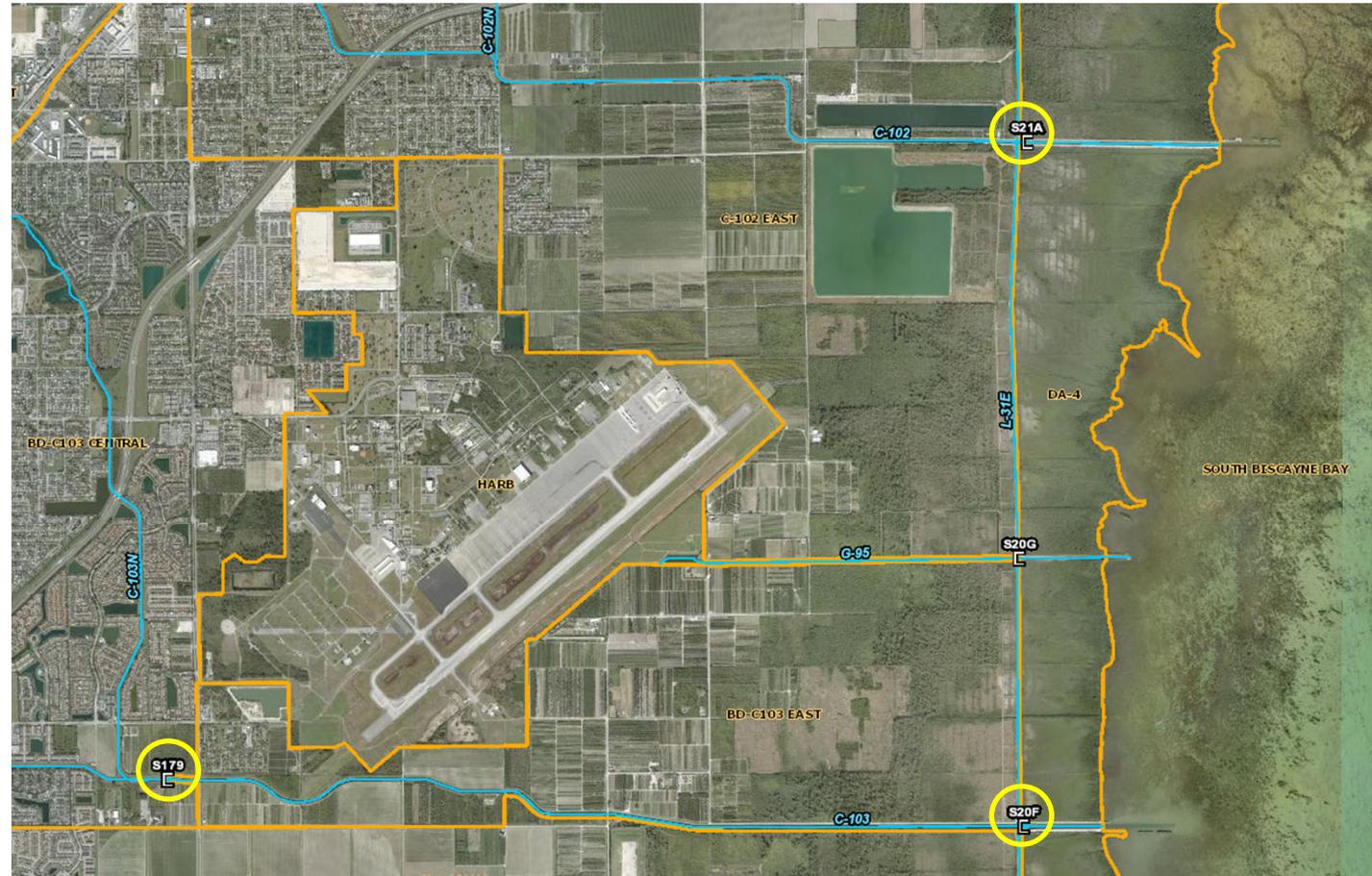


For this week, the Tamiami Trail Flow Formula calls maximum releases from WCA-3A to NESRS. Current L-29 stage constraint is at 8.5 feet NGVD. South Dade Conveyance System is stable. S-356 is pumping. S-332s are pumping as needed. S-176 and S-177 are closed. S-18C is currently open and S-197 is closed. LPG-2 stage at 8.5 SMA is below ground. S-357 is pumping as needed to maintain stages 4.5 to 5.0 ft NGVD in the C-357 canal. S-199 and S-200 are pumping (CSSS restrictions ended June 30th).

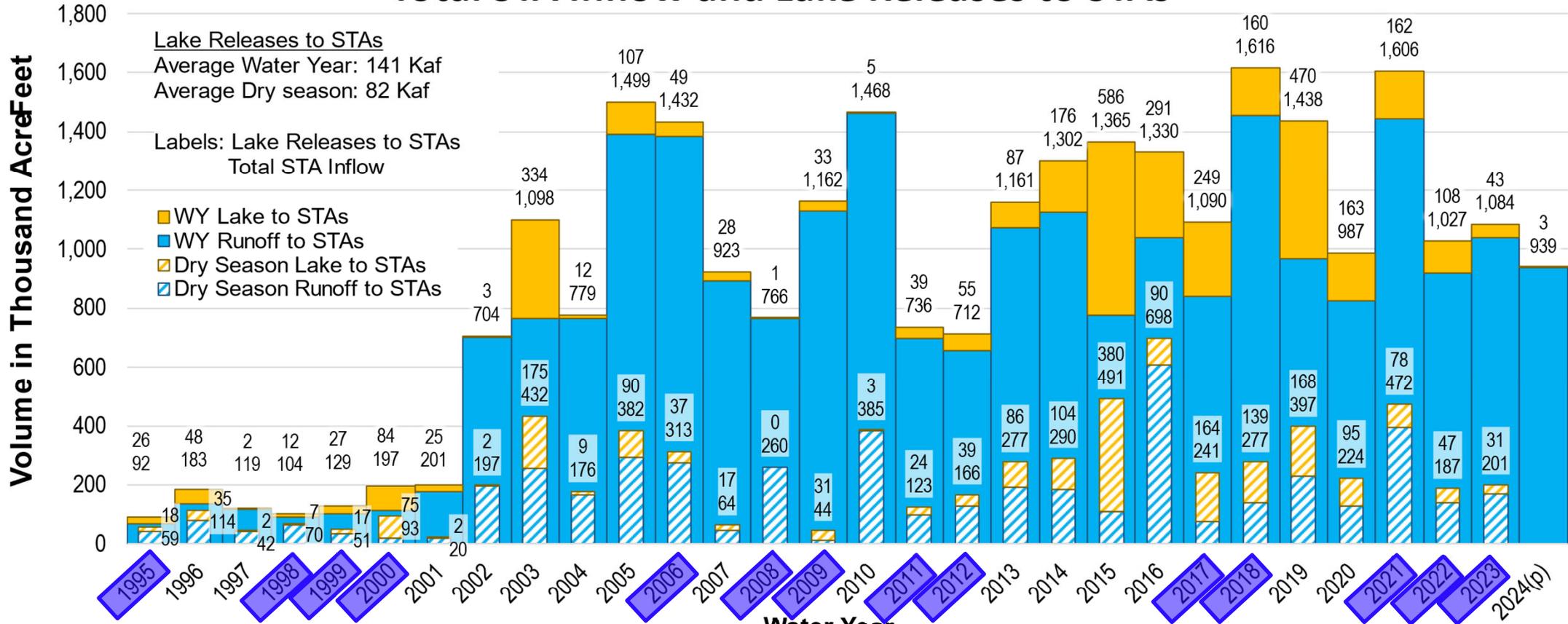
WCA-1 stage is at about below regulation schedule; WCA-2A stage is above regulation schedule; WCA-3A stage is above regulation schedule in Zone A. S-10s are open (~1,050 cfs) and S11s are open (~3,900 cfs). S12S (A-D) are fully open. Total S-12s discharge is ~ 2,750 cfs. S-333 and S-333N are limited due to L-29 stage constraint (~ 230 cfs). S-343 A and B closed on 10/01/2023. S-344 is open passing ~ 165 cfs. Interior structures to WCA-3A S-339 and S-340 are open. WCA-1 releases to tide through Hillsboro Canal (S-39 ~ 500 cfs) and WCA-2A through C-14 (S-38 ~ 260 cfs) nad NNR (S-34E ~ 240 cfs). South Miami-Dade ag drawdown will begin by October 15th (Operate S21A, S20F and S179 on the low stage range).

2023-2024 South Miami-Dade Seasonal Agricultural Operations

- Stages at S-21A, S-20F and S-179 are maintained in the lower operational range to facilitate drainage of agricultural lands in the area.
- Based on field conditions and groundwater levels, the District will proceed with the canal drawdown on October 15th.
- Homestead Field Station conducts regular site visits and field condition assessments.
- Consider nearshore salinity conditions when shifting operational ranges
- Water Managers direct operational changes as necessary.



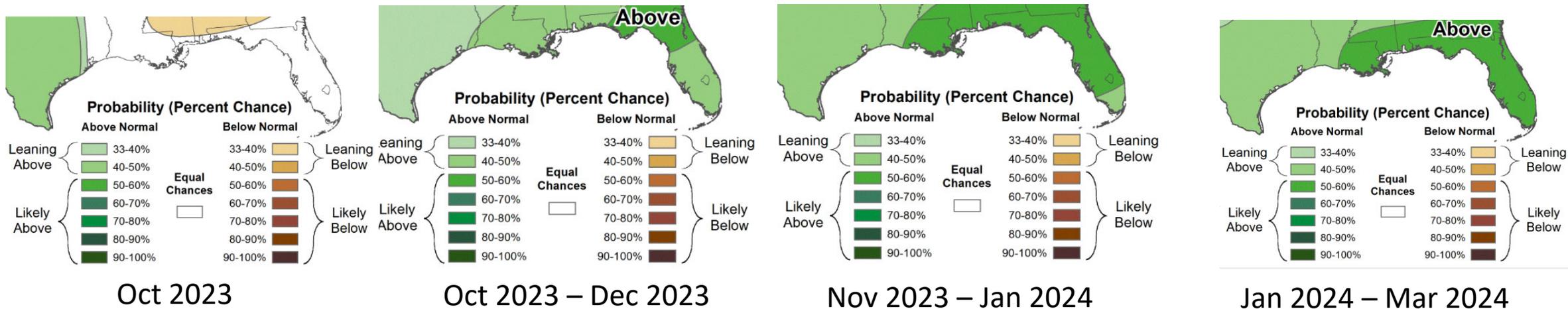
Total STA Inflow and Lake Releases to STAs



2024(p): Data from May 1, 2023 to Oct 8, 2023.

La Niña Water Years

CPC Precipitation Outlook for South Florida



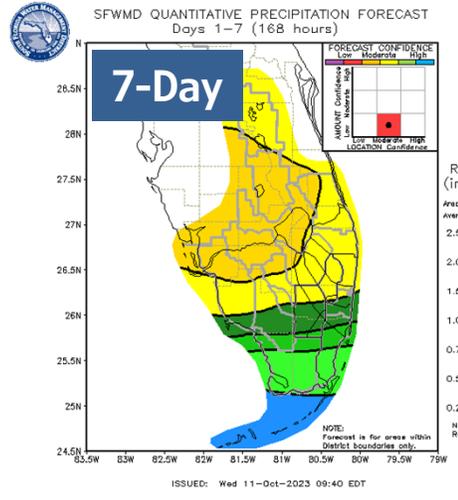
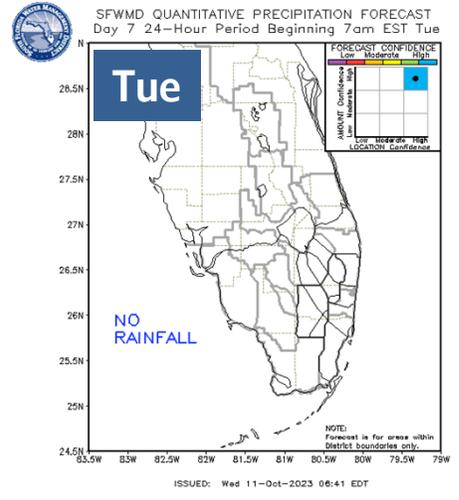
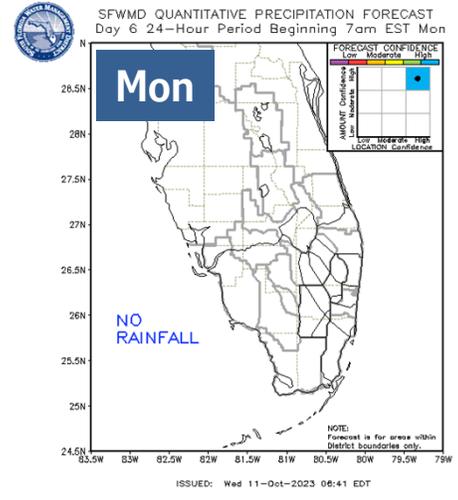
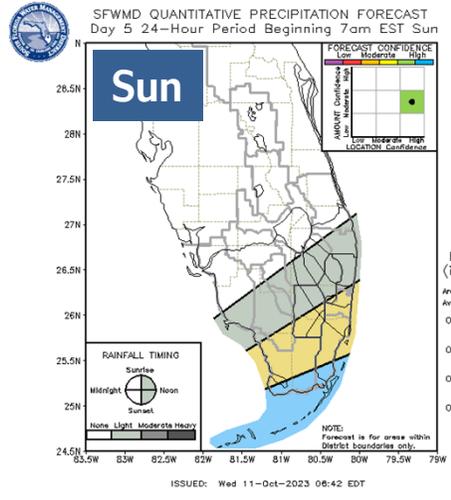
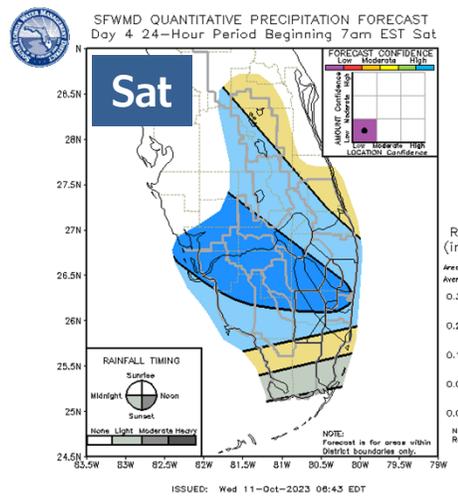
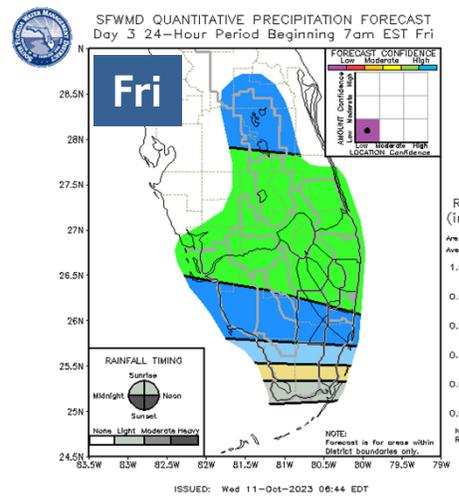
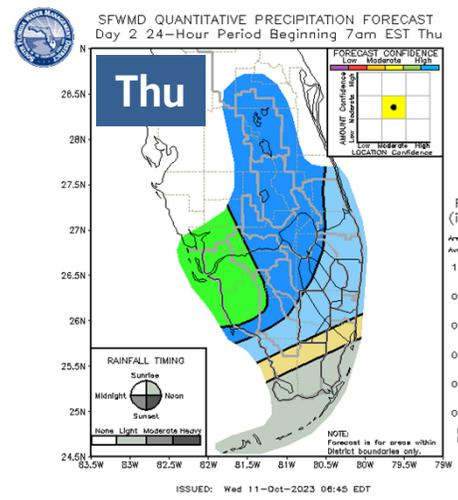
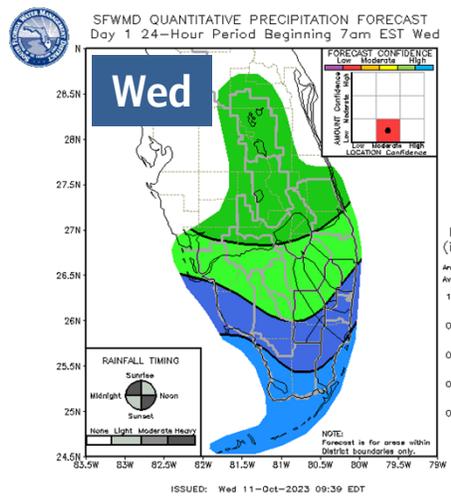
- The most recent CPC precipitation outlooks for South Florida for October 2023 is for equal chances of below normal, normal and above normal rainfall.
- The 3-month window Oct-Dec show increased chances of above normal rainfall.
- The 3-month window of Nov 2023-Jan 2024 shows substantially increased chances of above normal rainfall for areas north of the EAA and increased chances of above normal rainfall for the remaining areas south.
- The 3-month windows of Dec 2023-Feb 2024 and Jan 2024-Mar 2024 indicate substantially increased chances of above normal rainfall for south Florida.
- The outlooks for the 3-month window Feb 2024-Apr 2024 and Mar 2024 – May 2024 are for increased chances of above normal rainfall.
- The transition to and the first half of the 2024 wet season indicate equal chances of below normal, normal and above normal rainfall.

Updated September 30, 2023

<https://www.cpc.ncep.noaa.gov/products/predictions/30day/>



Short-, Medium-, & Extended-Range Outlooks

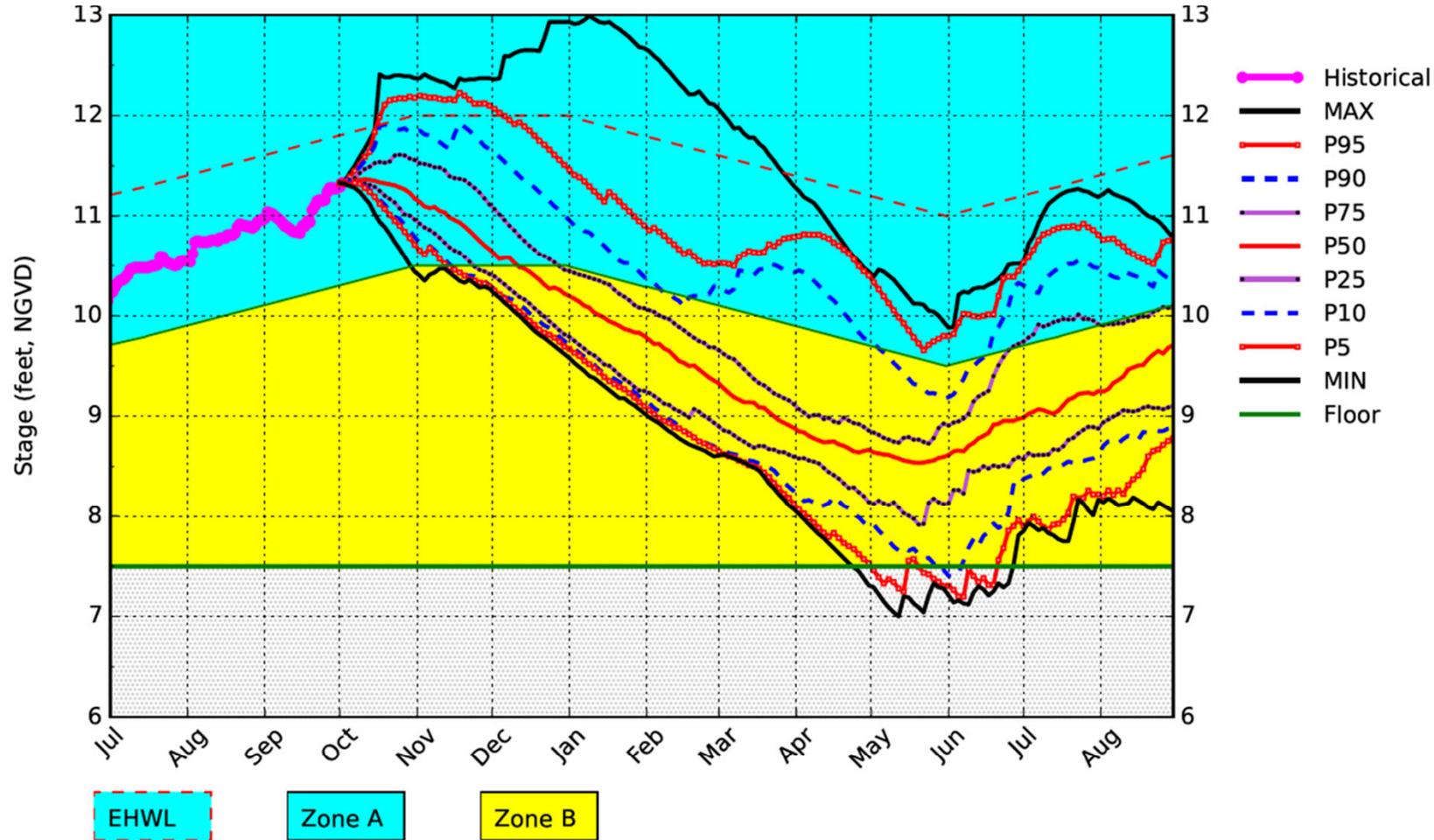


Weekly Summary

Week 1 (Historical Avg: 0.94"): Much above to above normal
 Week 2 (Historical Avg: 0.80"): Near to above normal

WCA3A SFWMM October 2023 Position Analysis

Percentiles PA



(See assumptions on the Position Analysis Results website)

10/05/23 13:09:20

Presenter: John Mitnik

Ecological Conditions Update

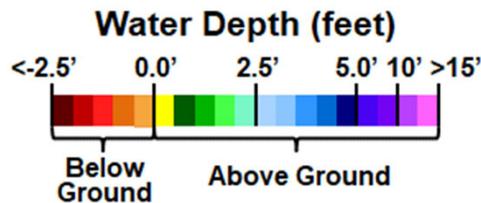
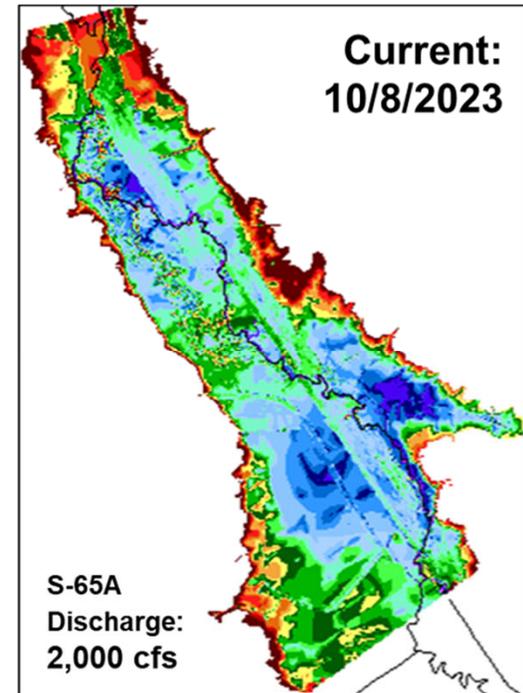
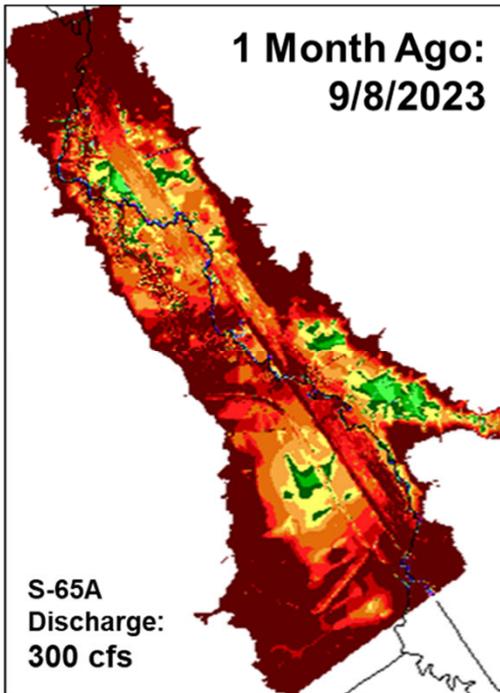
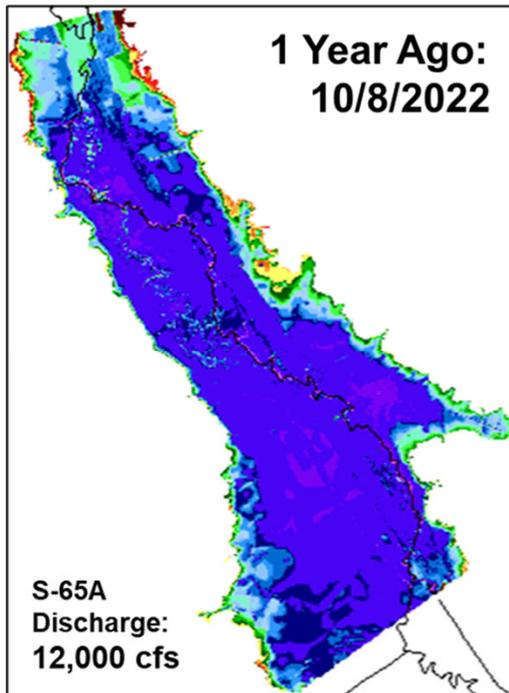
Governing Board Meeting
October 12, 2023



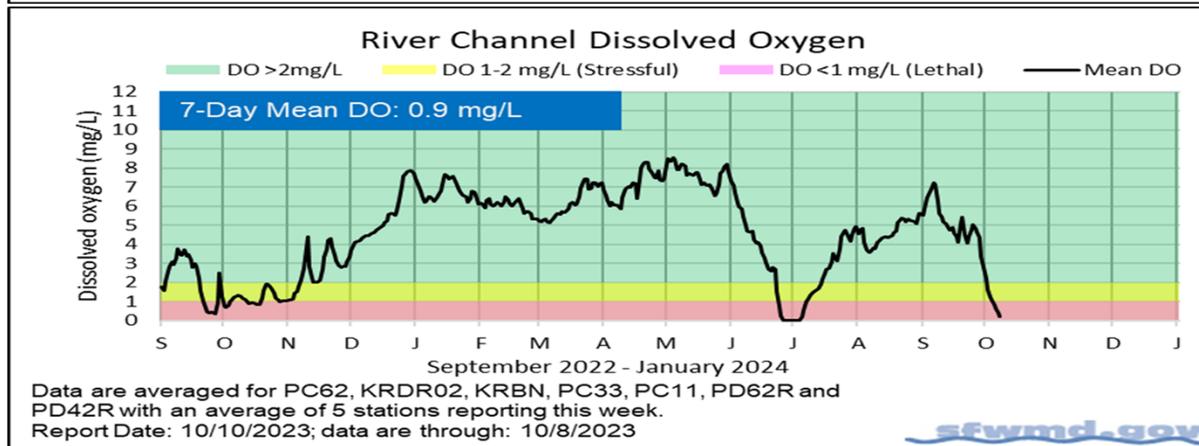
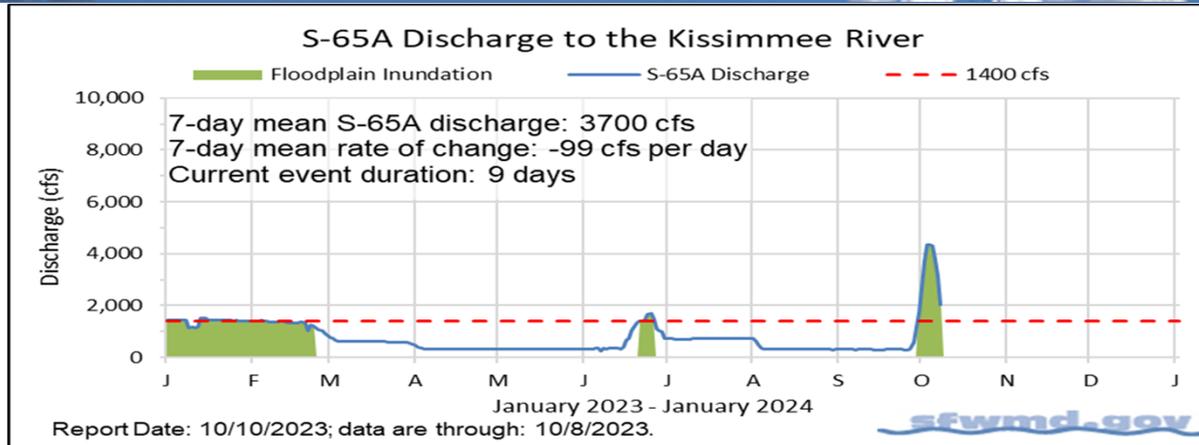
Lawrence Glenn
Division Director
Water Resources

*Phase I restoration area floodplain.
Photograph courtesy of Brent Anderson.*

Kissimmee River (Phase I) Floodplain Water Depth Maps

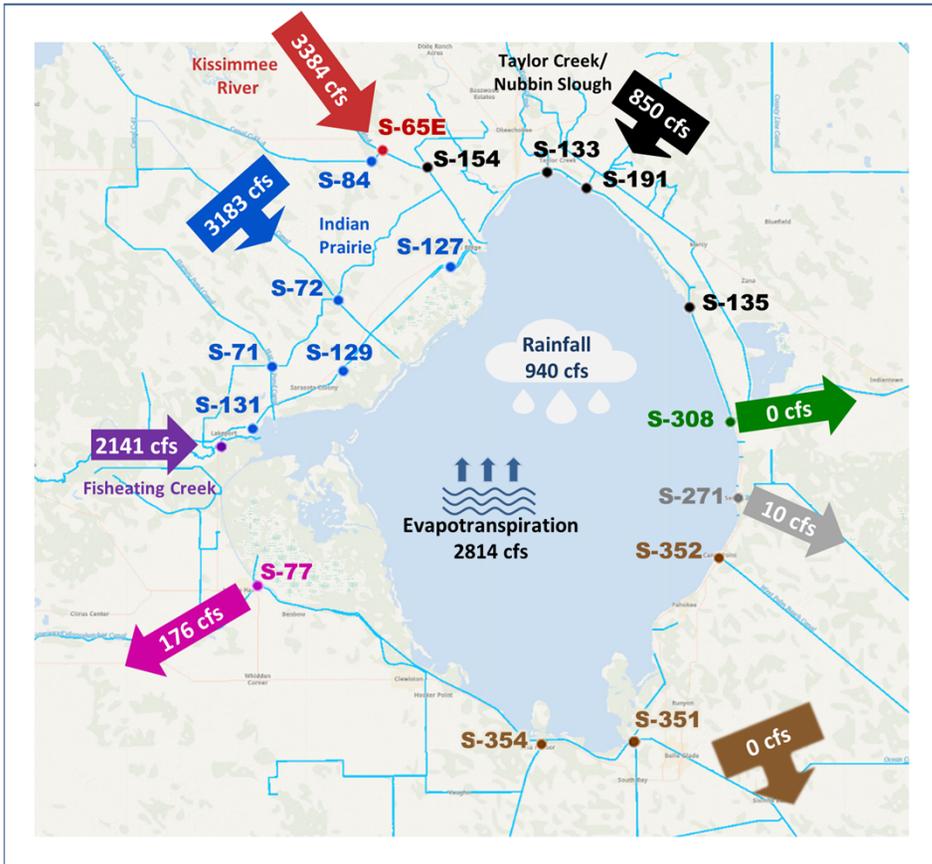


Kissimmee River Discharge and Dissolved Oxygen

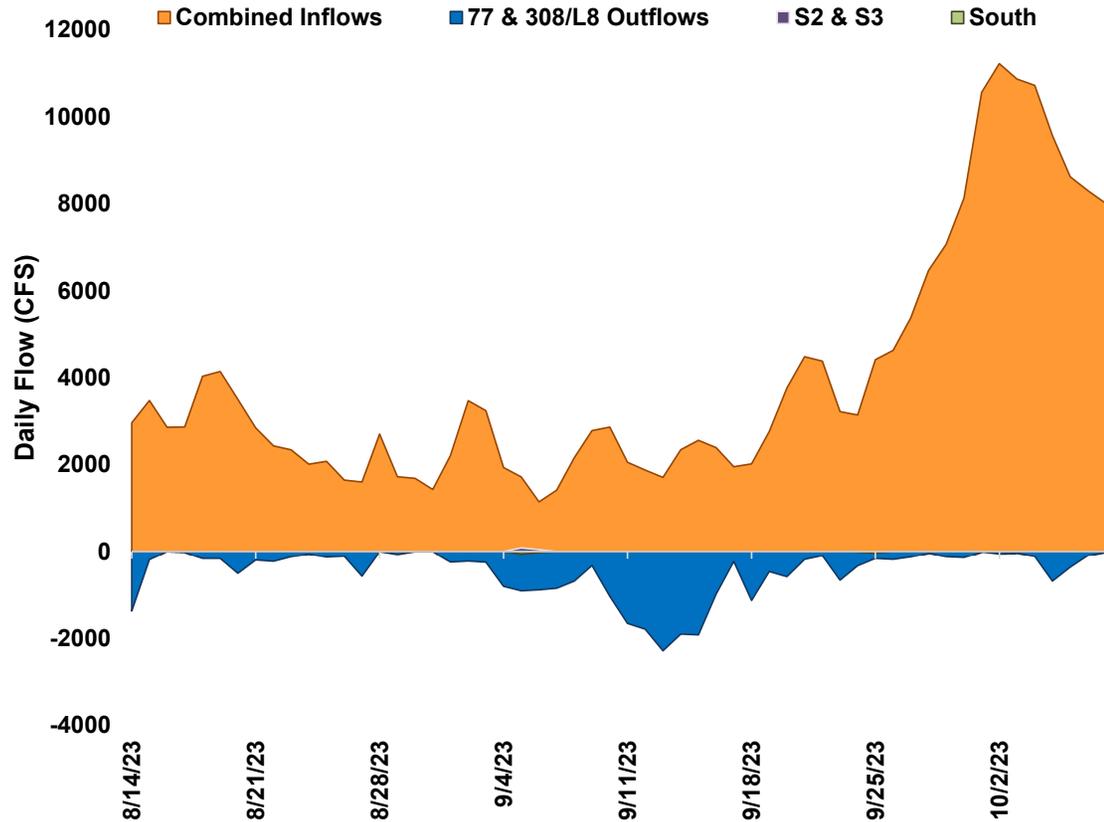


Lake Okeechobee Hydrology (*Provisional Data)

Oct 02 – Oct 08, 2023 Inflows and Outflows



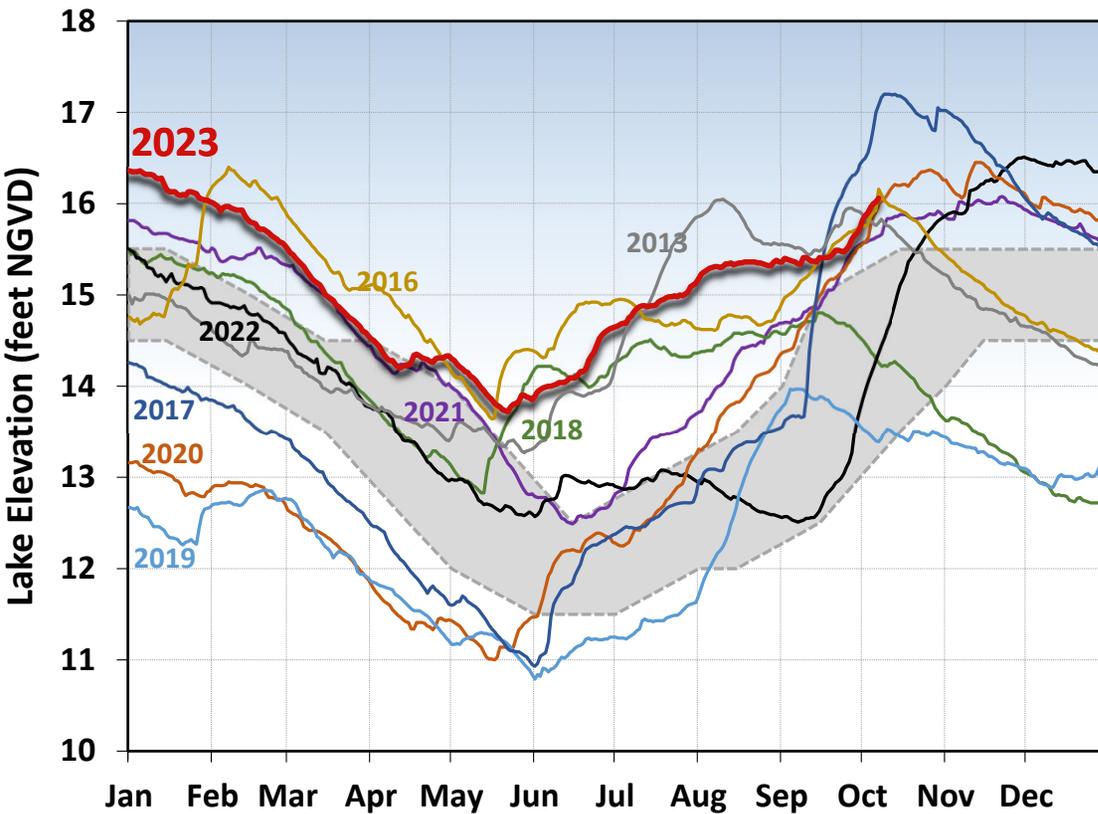
Prior 8 Weeks Inflows and Outflows



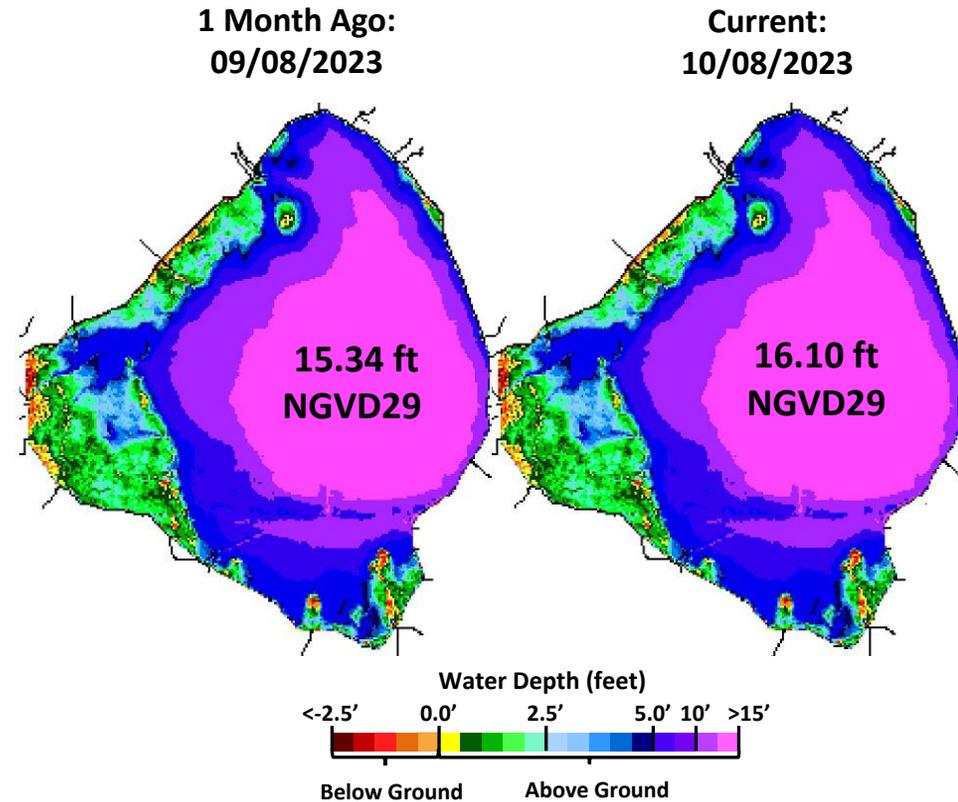
Presenter: Lawrence Glenn

Ecological Envelope and Water Depths

Lake Okeechobee Stage vs Ecological Envelope

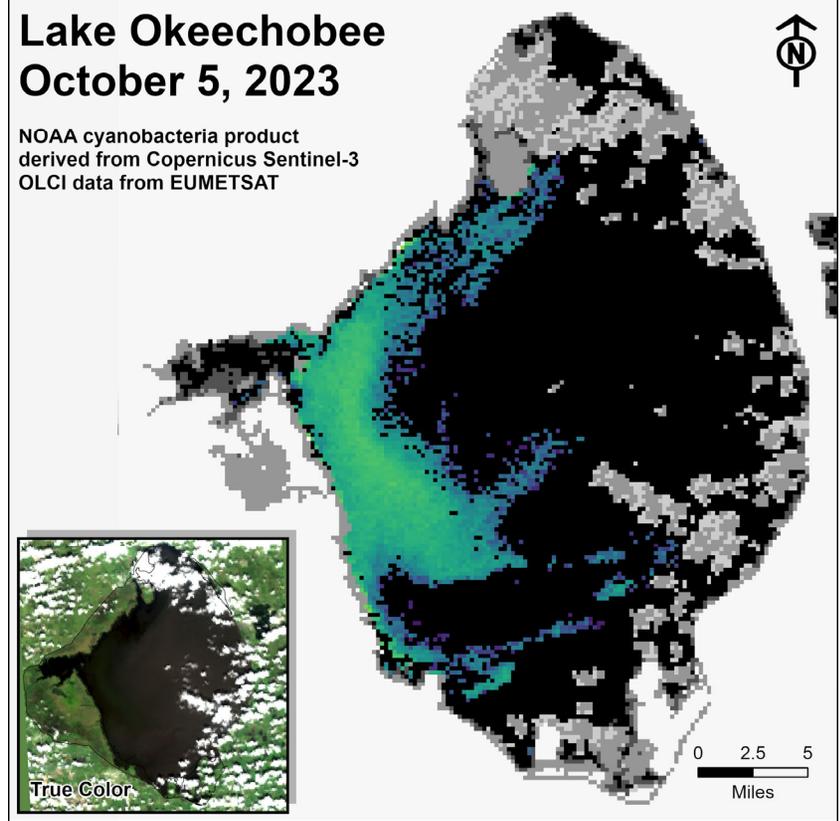
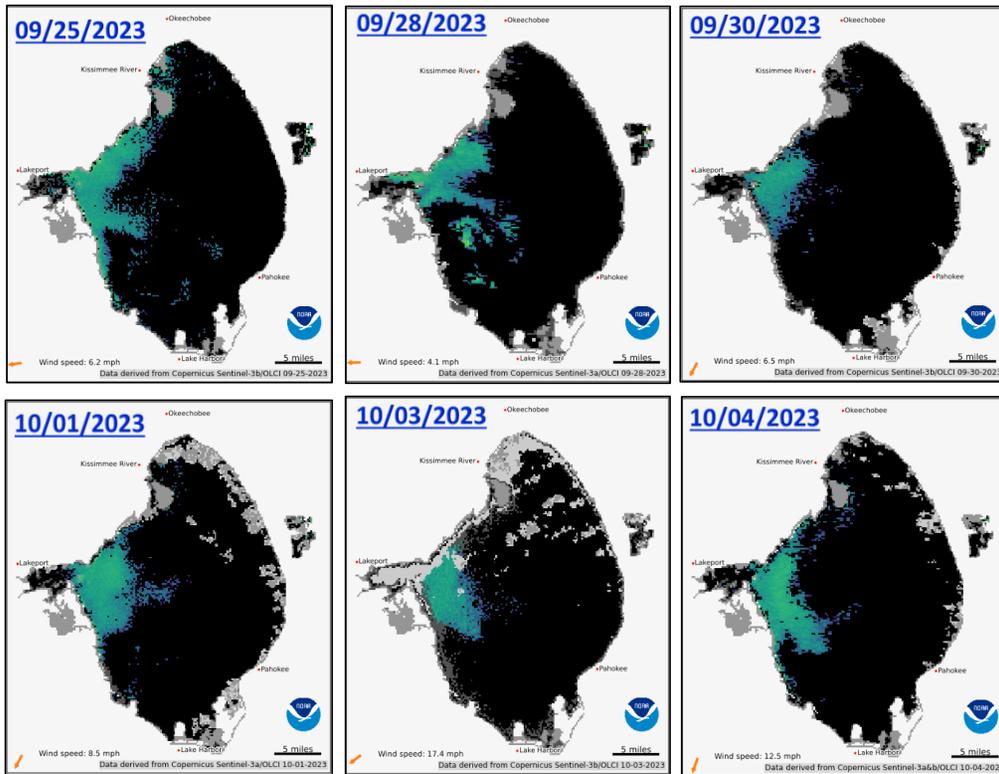


Changes in Water Depth



Presenter: Lawrence Glenn

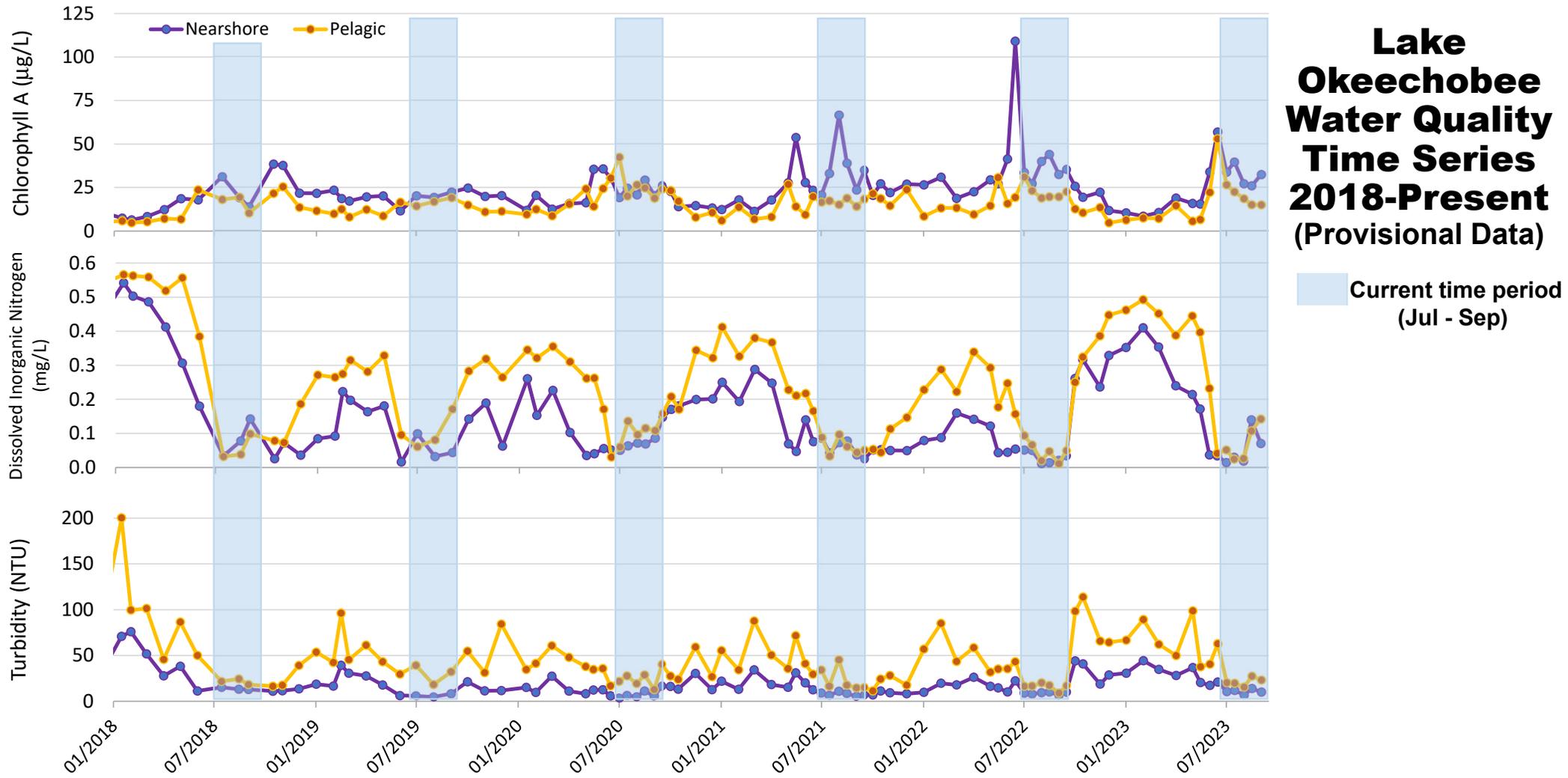
Cyanobacteria Bloom Distribution and Intensity



NOAA cyanobacteria product derived from Copernicus Sentinel-3 OLCI data from EUMETSAT

Source: [Cyanobacteria Algal Bloom from Satellite in Lake Okeechobee, FL - NCCOS Coastal Science Website \(noaa.gov\)](https://www.noaa.gov/press-release/2023/09/2023-09-20-cyanobacteria-algal-bloom-from-satellite-in-lake-okeechobee-fl)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT



Lake Okeechobee Water Quality Time Series 2018-Present (Provisional Data)

Current time period (Jul - Sep)

Presenter: Lawrence Glenn

Lake Okeechobee

Chlorophyll *a*, Total Microcystins, and Dominant Taxa

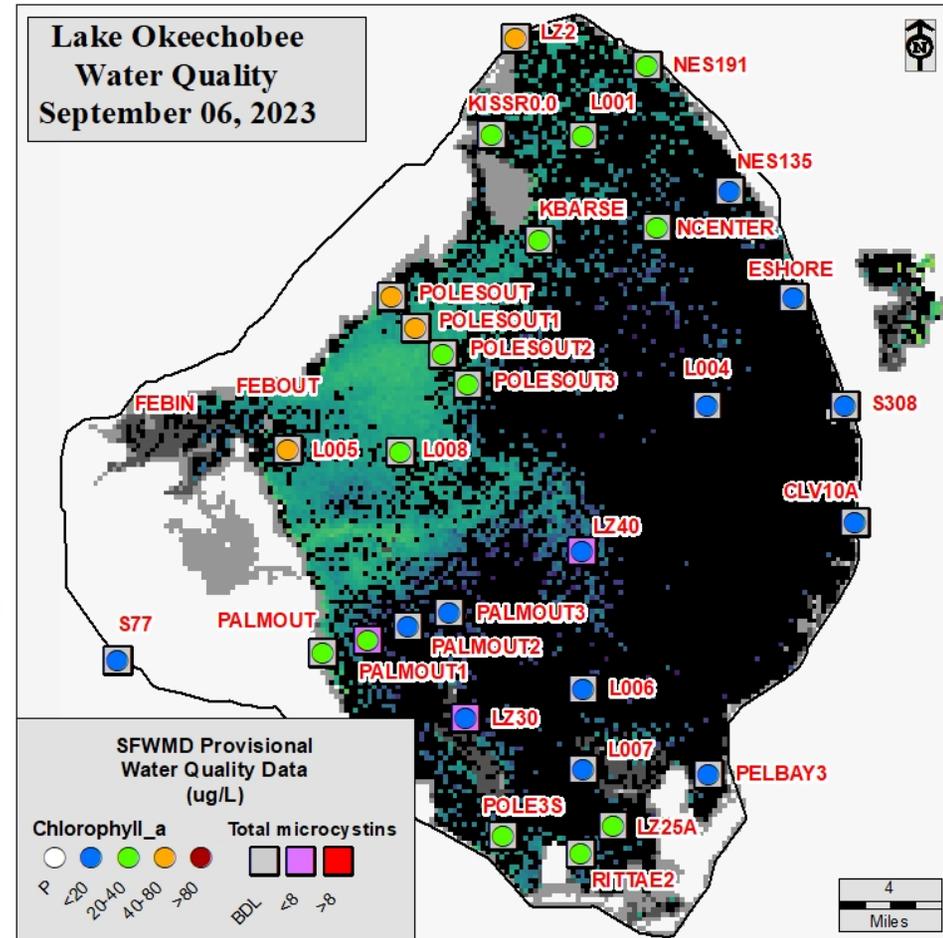
*Provisional Data

Collection Date: September 05-06, 2023

Station	CHLa (ug/L)	TOXIN (ug/L)	TAXA	Station	CHLa (ug/L)	TOXIN (ug/L)	TAXA
FEBIN	NS	NS	NS	L001	29.4	BDL	<i>Microcys</i>
FEBOUT	NS	NS	NS	L004	9.4	BDL	<i>mixed</i>
KISSR0.0	30.7	BDL	<i>mixed</i>	L006	6.8	BDL	<i>mixed</i>
L005	47.0	BDL	<i>Microcys</i>	L007	9.5	BDL	<i>mixed</i>
LZ2	45.1	BDL	<i>mixed</i>	L008	34.5	BDL	<i>Microcys</i>
KBARSE	39.0	BDL	<i>mixed</i>	LZ30	13.2	0.3	<i>Microcys</i>
RITTAE2	27.1	BDL	<i>Planktol</i>	LZ40	7.2	0.3	<i>Microcys</i>
PELBAY3	18.0	BDL	<i>mixed</i>	CLV10A	8.8	BDL	<i>mixed</i>
POLE3S	22.0	BDL	<i>mixed</i>	NCENTER	21.5	BDL	<i>Microcys</i>
LZ25A	26.7	BDL	<i>Microcys</i>	S308C	7.2	BDL	<i>mixed</i>
PALMOUT	33.3	BDL	<i>Microcys</i>	S77	2.2	BDL	<i>mixed</i>
PALMOUT1	20.8	0.5	<i>Microcys</i>				
PALMOUT2	6.1	BDL	<i>Microcys</i>				
PALMOUT3	13.6	BDL	<i>Microcys</i>				
POLESOUT	40.5	BDL	<i>Planktol</i>				
POLESOUT1	46.5	BDL	<i>Planktol</i>				
POLESOUT2	38.7	BDL	<i>mixed</i>				
POLESOUT3	29.0	BDL	<i>Microcys</i>				
EASTSHORE	9.9	BDL	<i>mixed</i>				
NES135	18.9	BDL	<i>Microcys</i>				
NES191	33.6	BDL	<i>Microcys</i>				

- SFWMD considers >40 µg/L Chlorophyll *a* (Chla) an algal bloom
- BDL – Below Detectable Limit of 0.25 µg/L
- ND – No Dominant taxa
- P – Pending (white squares)
- NS – Not Sampled
- Station bold font – crew observed possible BGA
- Chlorophyll *a* analyzed by SFWMD
- Toxin and Taxa analyzed by FDEP:
Microcys = *Microcystis*; *Cylindro* = *Cylindrospermopsis*;
Planktol = *Planktolyngbya*; *Dolicho* = *Dolichospermum*

Presenter: Lawrence Glenn



Lake Okeechobee

Chlorophyll *a*, Total Microcystins, and Dominant Taxa

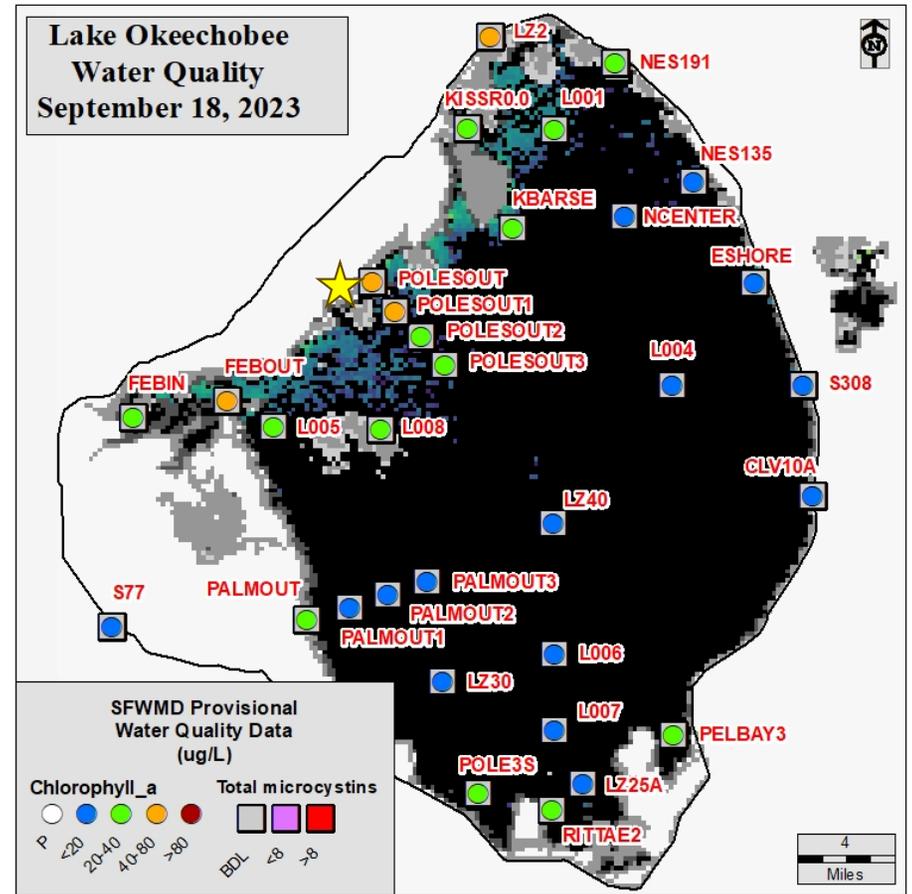
*Provisional Data

Collection Date: September 18-20, 2023

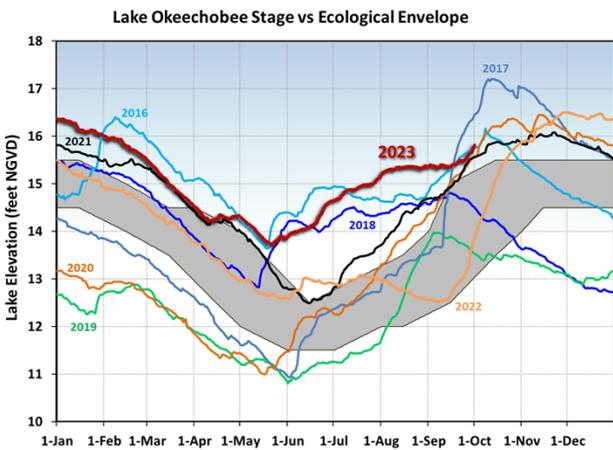
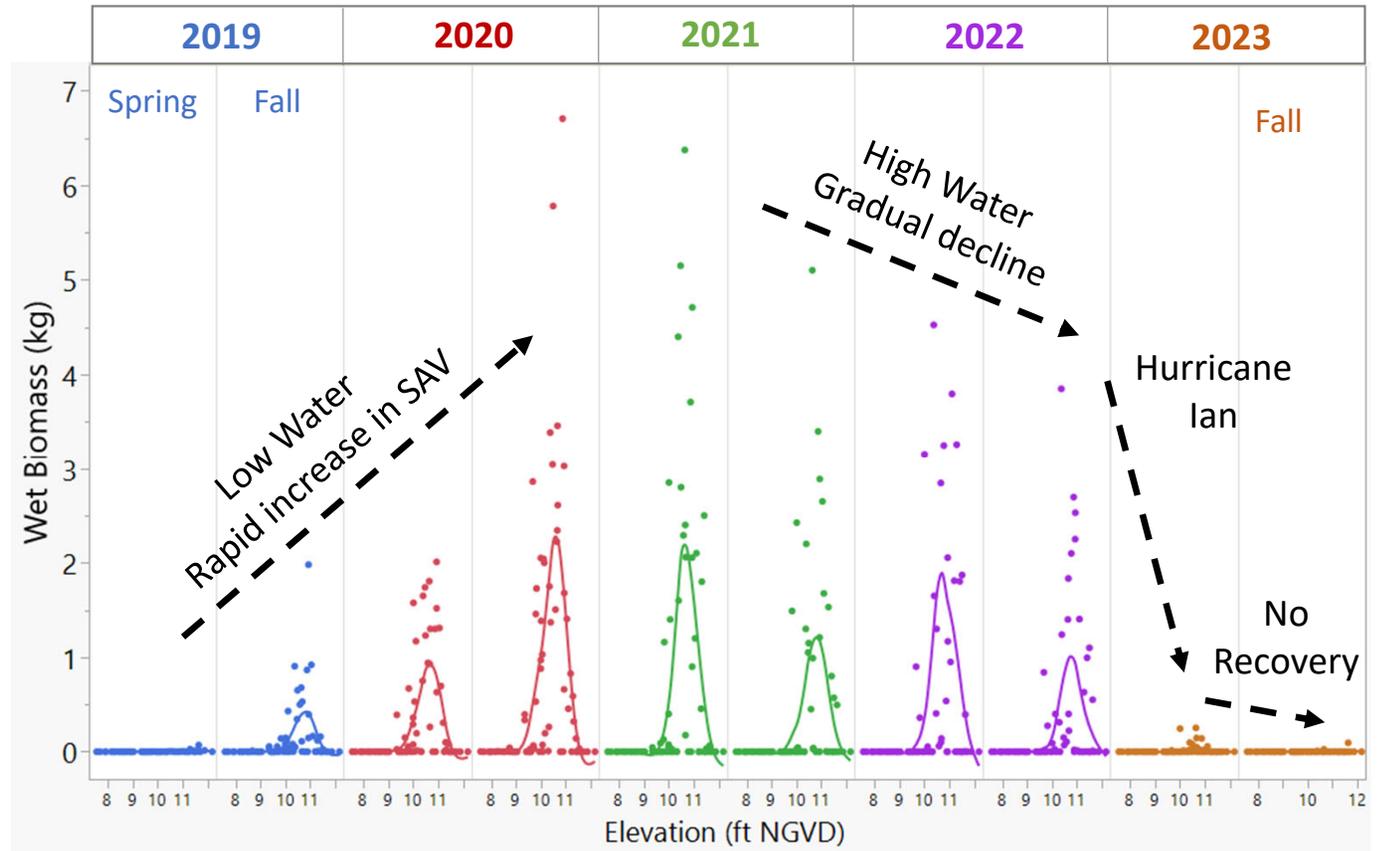
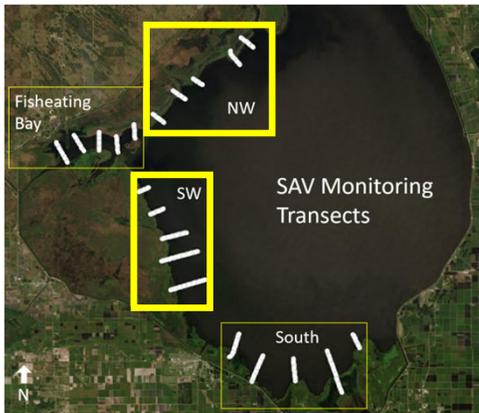
Station	CHLa (ug/L)	TOXIN (ug/L)	TAXA	Station	CHLa (ug/L)	TOXIN (ug/L)	TAXA
FEBIN	36.0	BDL	<i>Microcys</i>	L001	33.5	BDL	<i>Planktol</i>
FEBOUT	42.8	BDL	<i>mixed</i>	L004	6.7	BDL	<i>mixed</i>
KISSR0.0	31.7	BDL	<i>mixed</i>	L006	4.1	BDL	<i>Microcys</i>
L005	37.4	BDL	<i>mixed</i>	L007	5.8	BDL	<i>mixed</i>
LZ2	45.6	BDL	<i>Planktol</i>	L008	32.1	BDL	<i>Microcys</i>
KBARSE	22.2	BDL	<i>mixed</i>	LZ30	7.4	BDL	<i>mixed</i>
RITTAE2	29.5	BDL	<i>Planktol</i>	LZ40	5.9	BDL	<i>Microcys</i>
PELBAY3	22.9	BDL	<i>mixed</i>	CLV10A	9.6	BDL	<i>mixed</i>
POLE3S	24.2	BDL	<i>Planktol</i>	NCENTER	10.5	BDL	<i>mixed</i>
LZ25A	6.5	BDL	<i>mixed</i>	S308C	19.8	BDL	<i>mixed</i>
PALMOUT	22.5	BDL	<i>mixed</i>	S77	7.1	BDL	<i>mixed</i>
PALMOUT1	8.6	BDL	<i>mixed</i>				
PALMOUT2	6.0	BDL	<i>mixed</i>				
PALMOUT3	5.4	BDL	<i>mixed</i>				
POLESOUT	44.3	BDL	<i>Planktol</i>				
POLESOUT1	41.2	BDL	<i>Microcys</i>				
POLESOUT2	39.4	BDL	<i>Microcys</i>				
POLESOUT3	37.6	BDL	<i>Microcys</i>				
EASTSHORE	18.3	BDL	<i>mixed</i>				
NES135	17.8	BDL	<i>mixed</i>				
NES191	28.2	BDL	<i>mixed</i>				

- SFWMD considers >40 µg/L Chlorophyll *a* (Chla) an algal bloom
- BDL – Below Detectable Limit of 0.25 µg/L
- ND – No Dominant taxa
- P – Pending (white squares)
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- Station bold font – crew observed possible BGA
- Chlorophyll *a* analyzed by SFWMD
- Toxin and Taxa analyzed by FDEP:
Microcys = *Microcystis*; *Cylindro* = *Cylindrospermopsis*;
Planktol = *Planktolyngbya*; *Dolicho* = *Dolichospermum*

Presenter: Lawrence Glenn

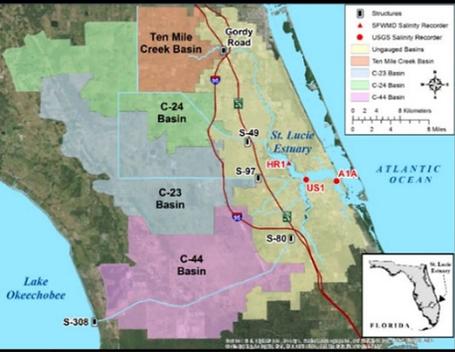


Lake Okeechobee – Submerged Aquatic Vegetation



Presenter: Lawrence Glenn

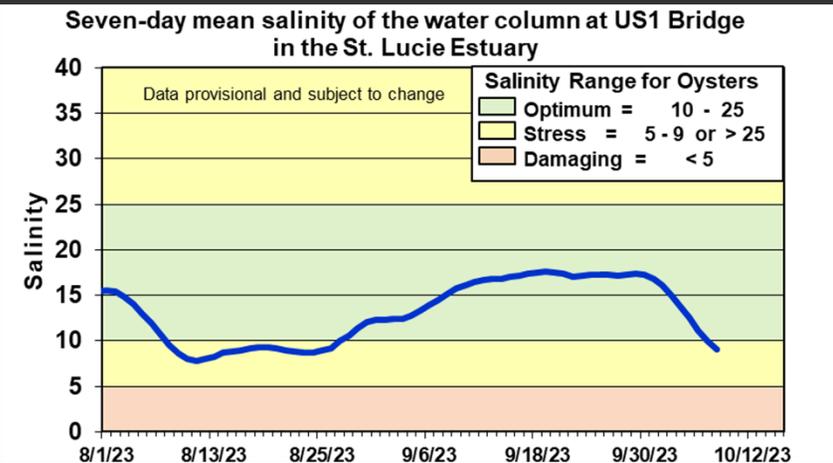
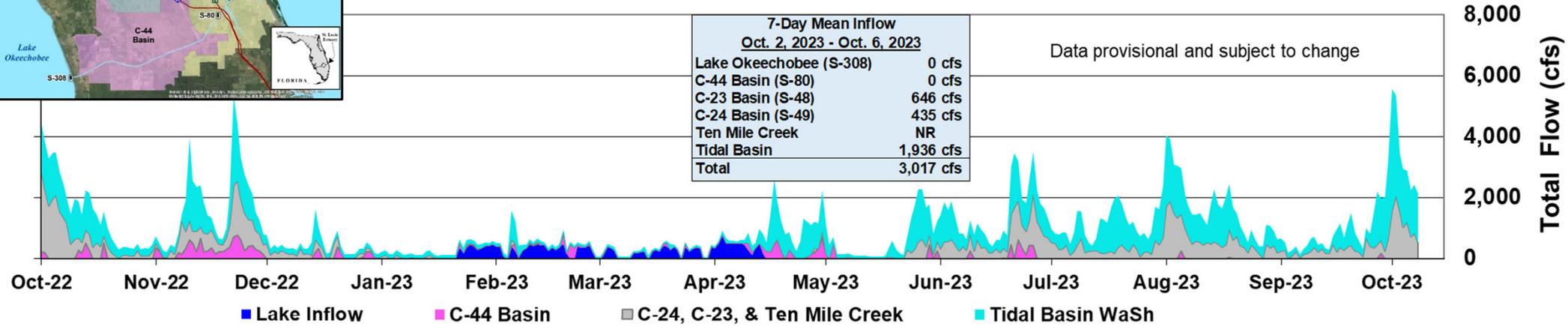
St. Lucie Inflows and Salinity Conditions



Total Daily Inflow into the St. Lucie Estuary

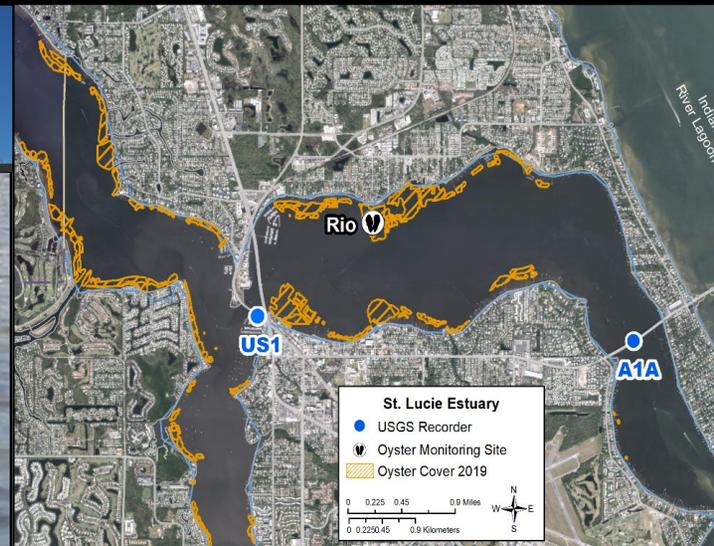
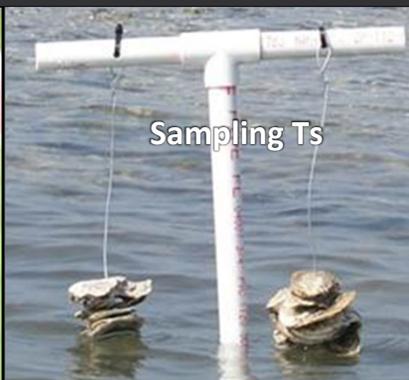
7-Day Mean Inflow Oct. 2, 2023 - Oct. 6, 2023	
Lake Okeechobee (S-308)	0 cfs
C-44 Basin (S-80)	0 cfs
C-23 Basin (S-48)	646 cfs
C-24 Basin (S-49)	435 cfs
Ten Mile Creek	NR
Tidal Basin	1,936 cfs
Total	3,017 cfs

Data provisional and subject to change

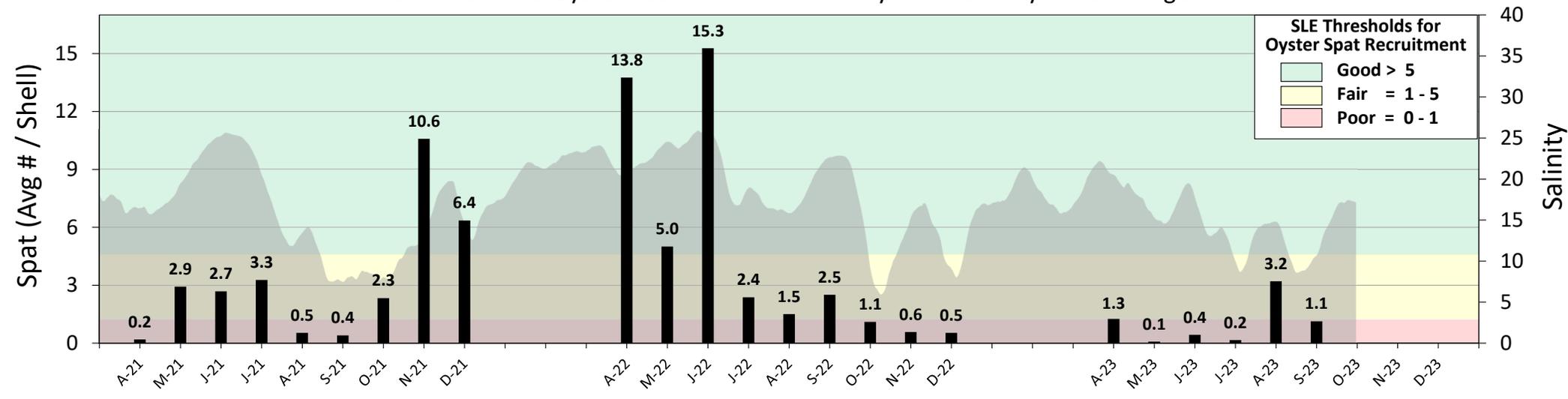


Presenter: Lawrence Glenn

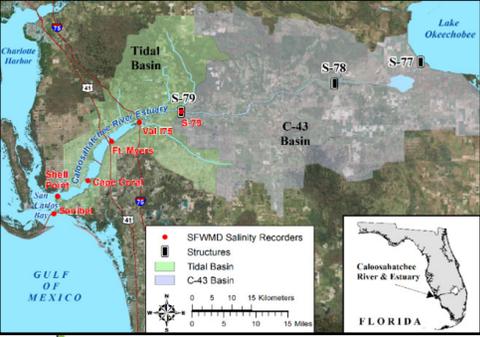
St. Lucie Estuary – Oyster Recruitment



2021 - 2023 Rio Oyster Recruitment and 14-Day Mean Salinity at US1 Bridge



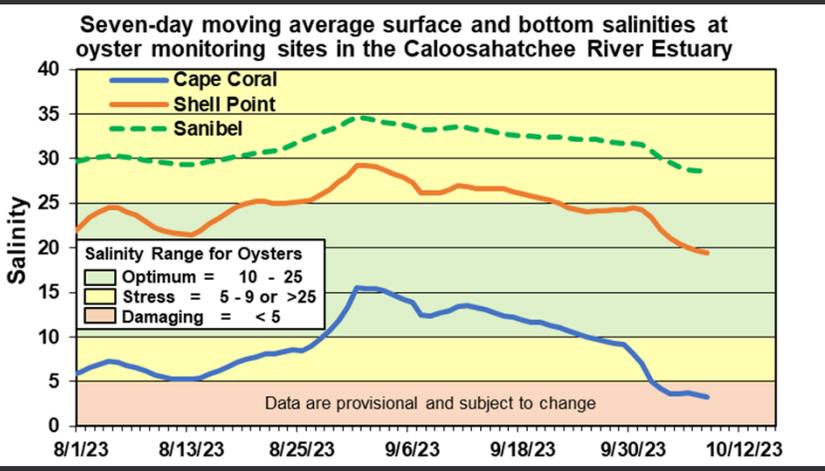
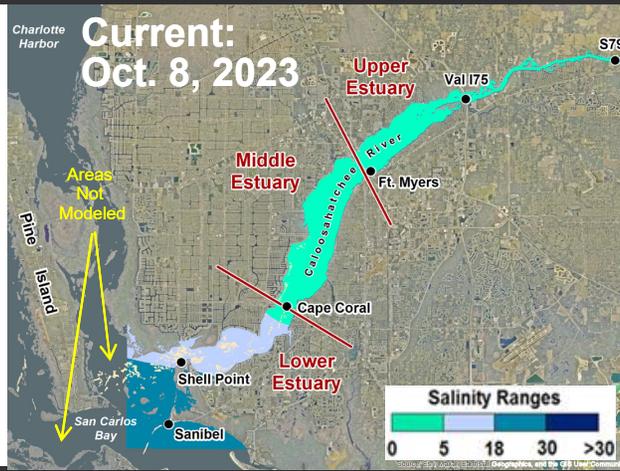
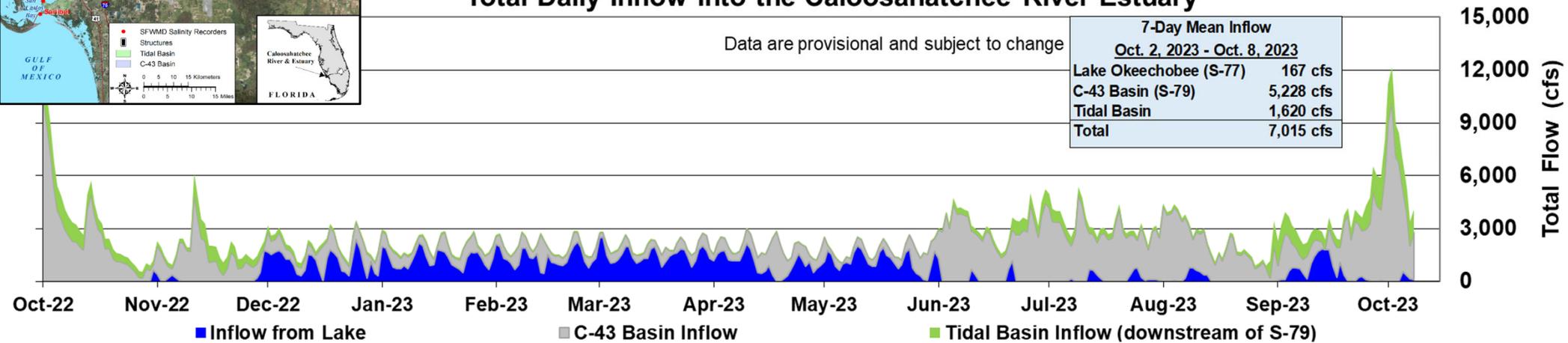
Caloosahatchee Inflows and Salinity Conditions



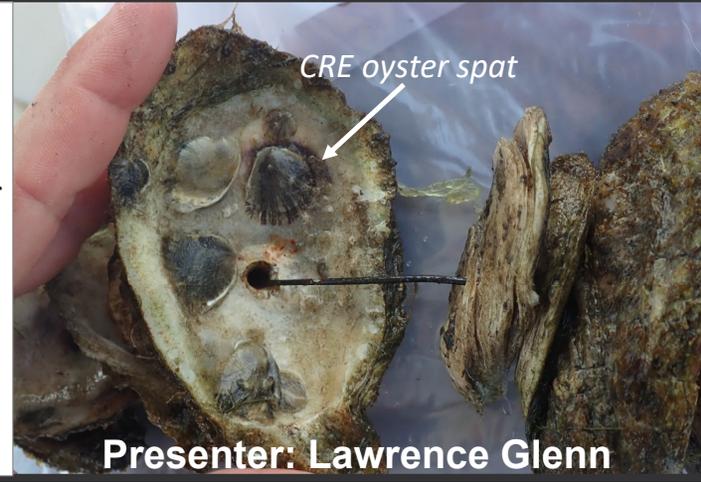
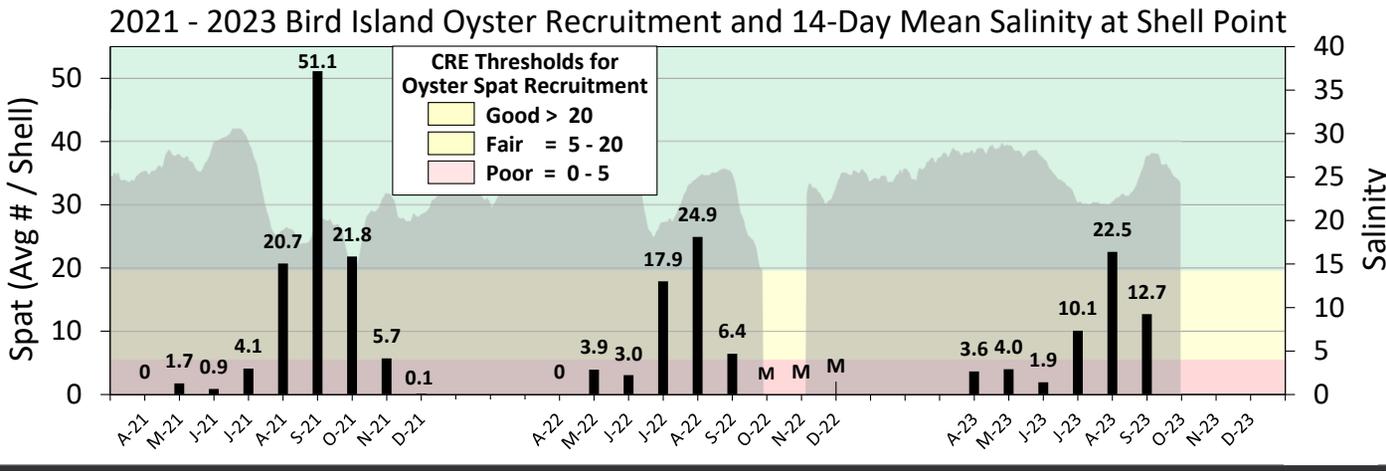
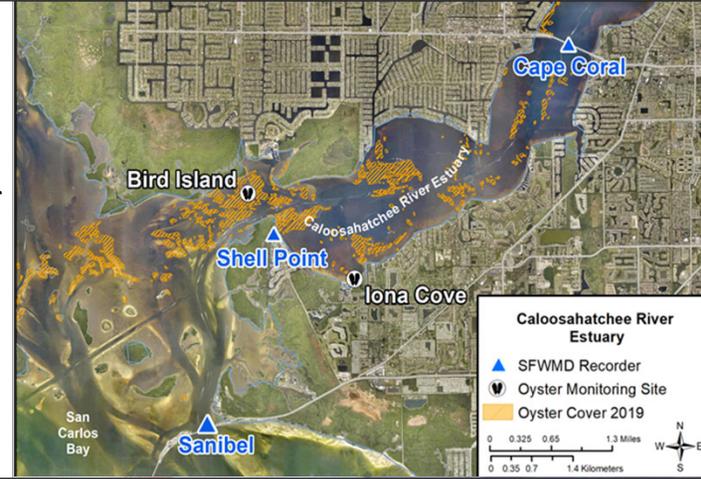
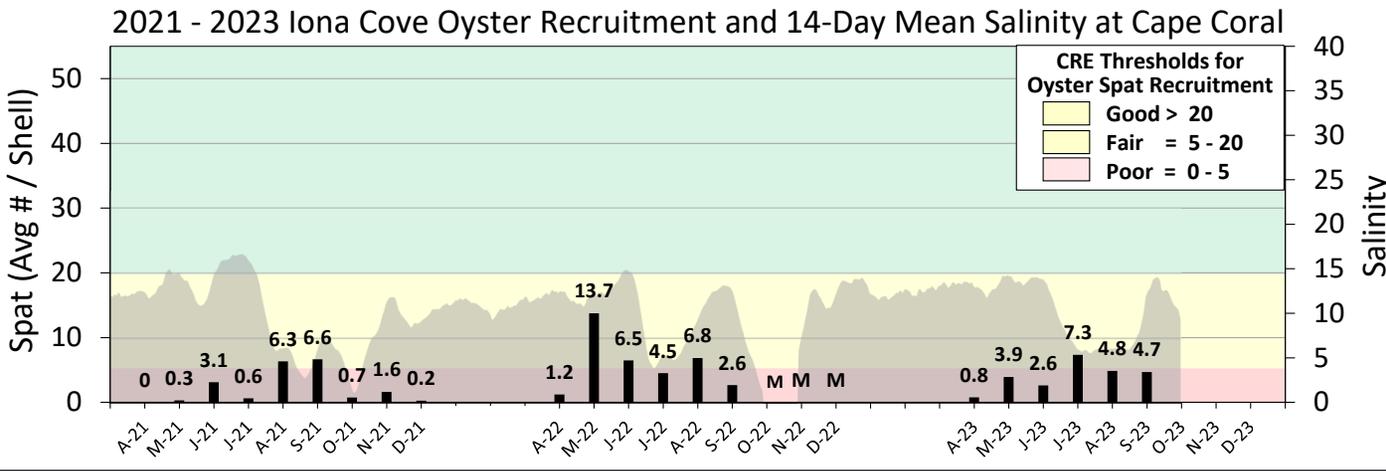
Total Daily Inflow into the Caloosahatchee River Estuary

Data are provisional and subject to change

7-Day Mean Inflow Oct. 2, 2023 - Oct. 8, 2023	
Lake Okeechobee (S-77)	167 cfs
C-43 Basin (S-79)	5,228 cfs
Tidal Basin	1,620 cfs
Total	7,015 cfs



Caloosahatchee Estuary – Oyster Recruitment

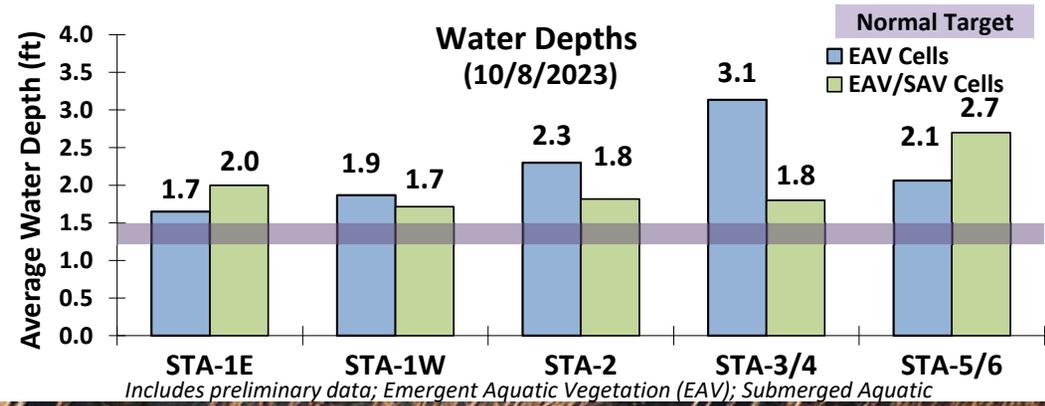
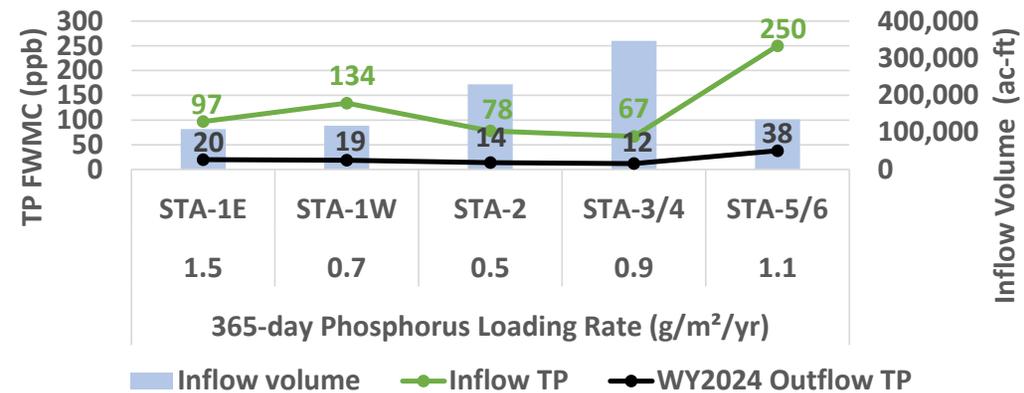


Presenter: Lawrence Glenn

Everglades Stormwater Treatment Areas (STAs)

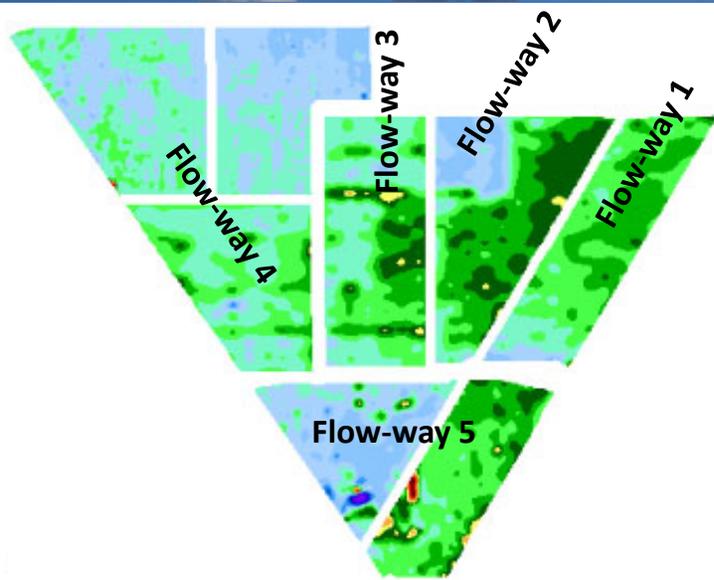
- STAs treated basin runoff in September
 - Total WY2024 inflows to STAs (5/1/2023 to 10/8/2023): ~938,900 ac-ft
 - Lake Okeechobee releases to FEB/STAs in WY2024: ~2,600 ac-ft
- Extensive vegetation management activities underway to address stressed and highly stressed vegetation especially in EAV cells
- Most treatment cells are above target depth

Water Year 2024
5/1/2023 to 10/8/2023
Includes Preliminary Data



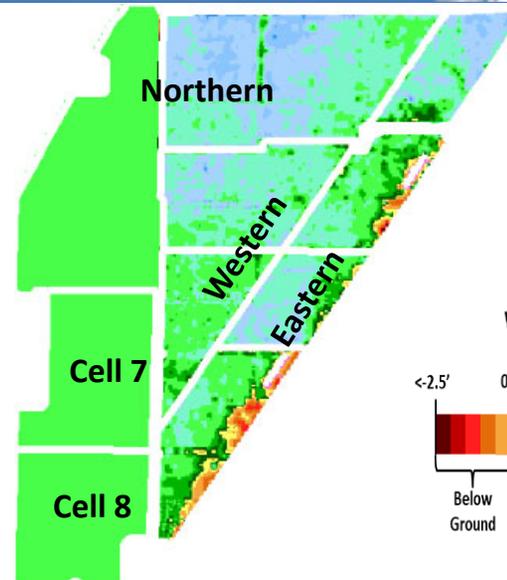
Includes preliminary data; Emergent Aquatic Vegetation (EAV); Submerged Aquatic

Stormwater Treatment Area Water Depths



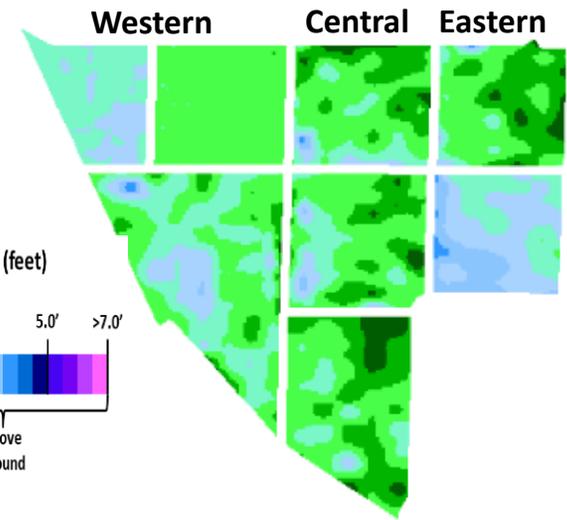
Flow-Way	Restrictions
1	On-line
2	On-line; vegetation management; canal plug refurbishments
3	On-line
4	On-line; vegetation management
5	On-line

STA-2



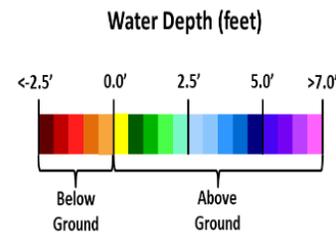
Flow-way	Restrictions
Northern	On-line; vegetation management
Eastern	On-line
Western	On-line
Cell 7	On-line
Cell 8	On-line; construction activities

STA-1W

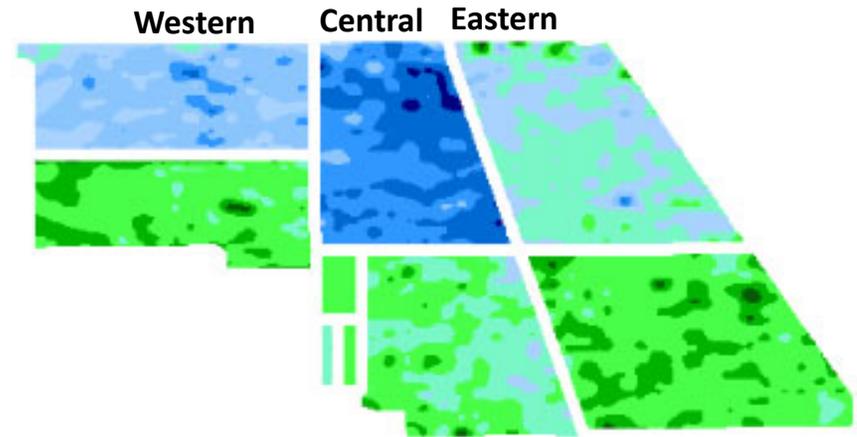
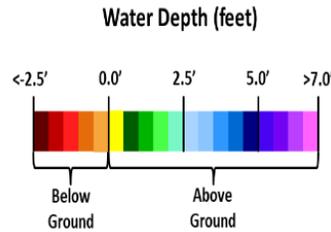
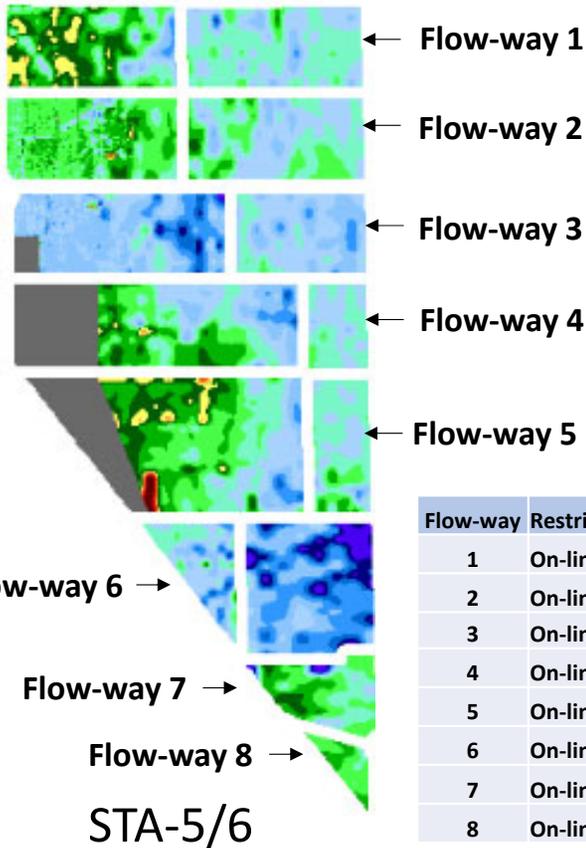


Flow-way	Restrictions	Back on-line
Western	Off-line; post-construction grow in	October
Central	On-line	
Eastern	On-line; Restoration Strategies Science Plan Study	

STA-1E



Stormwater Treatment Area Water Depths

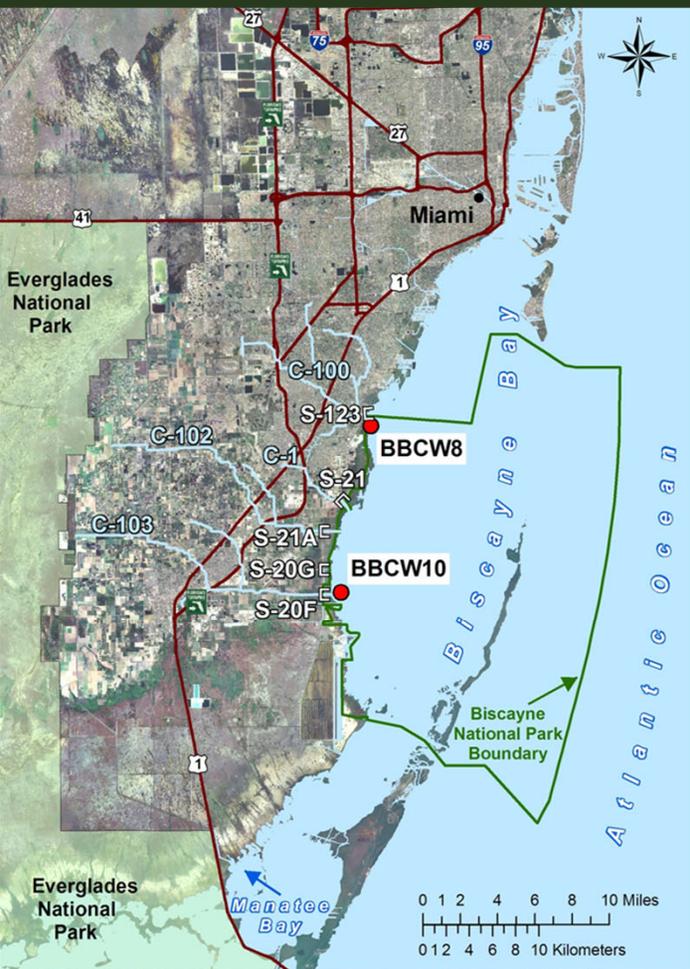


Flow-way	Restrictions
1	On-line
2	On-line
3	On-line
4	On-line; vegetation management
5	On-line
6	On-line
7	On-line
8	On-line

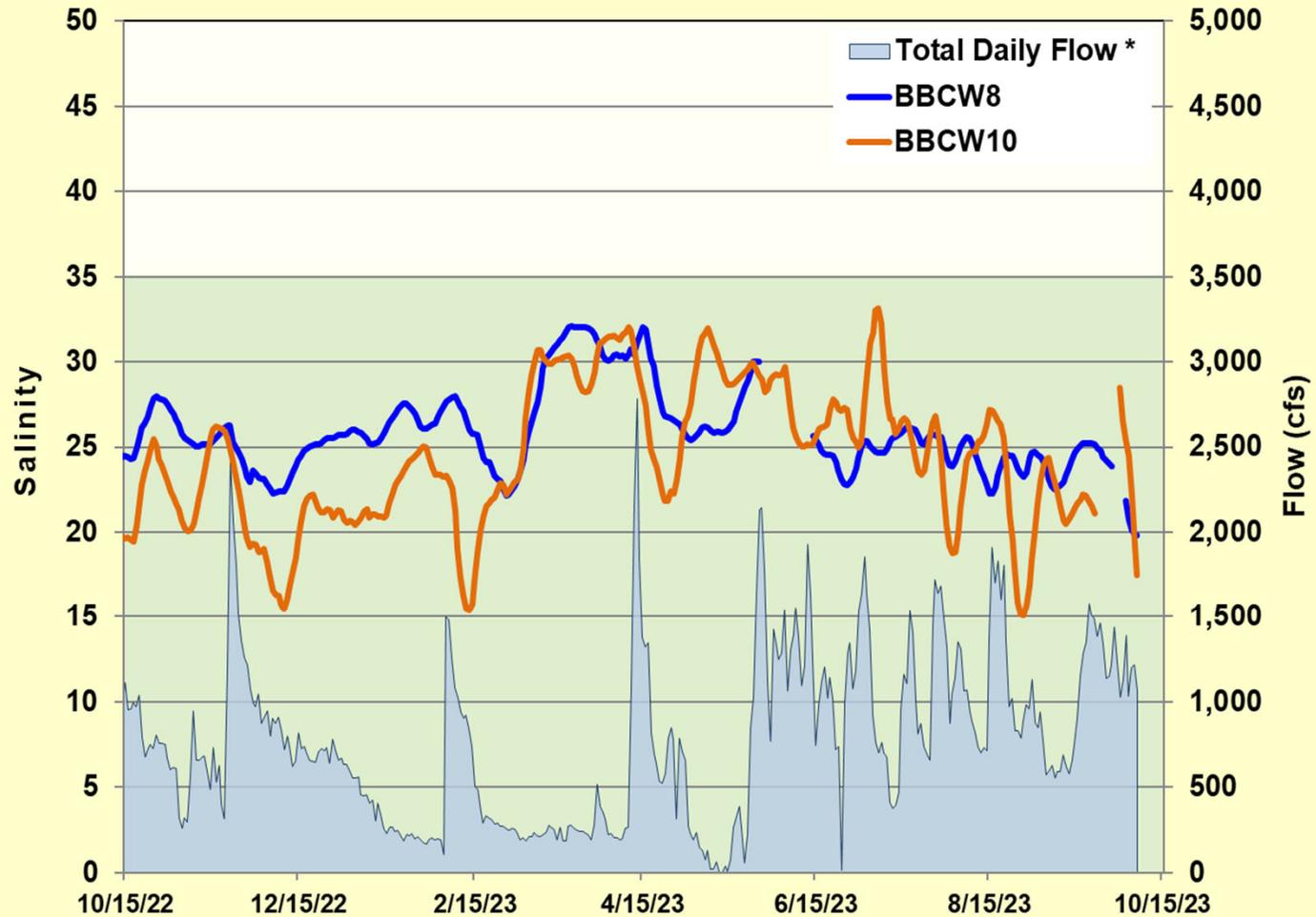
Flow-way	Restrictions
Western	On-line
Central	On-line
Eastern	Online; vegetation rehabilitation

STA-3/4

Biscayne Bay

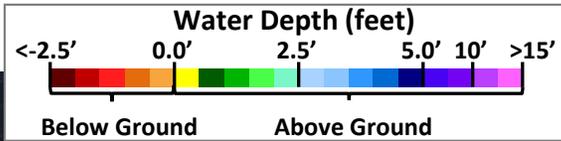
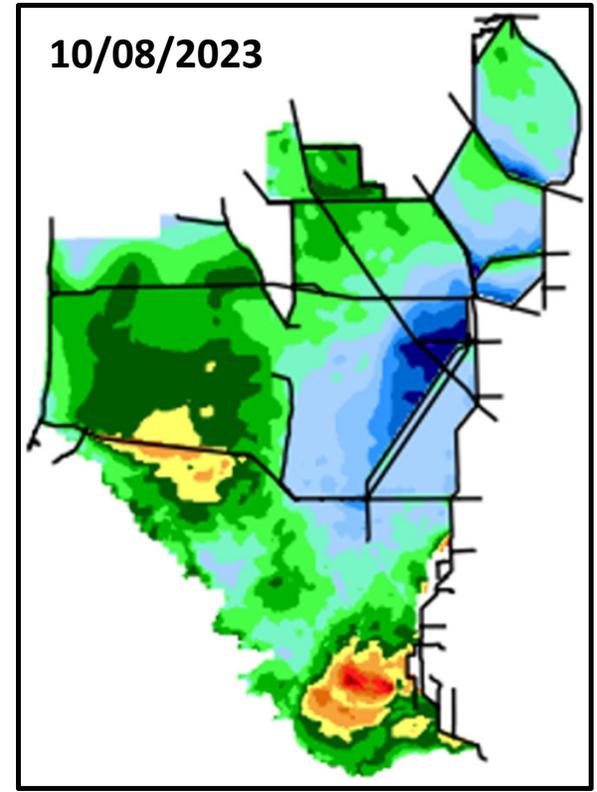
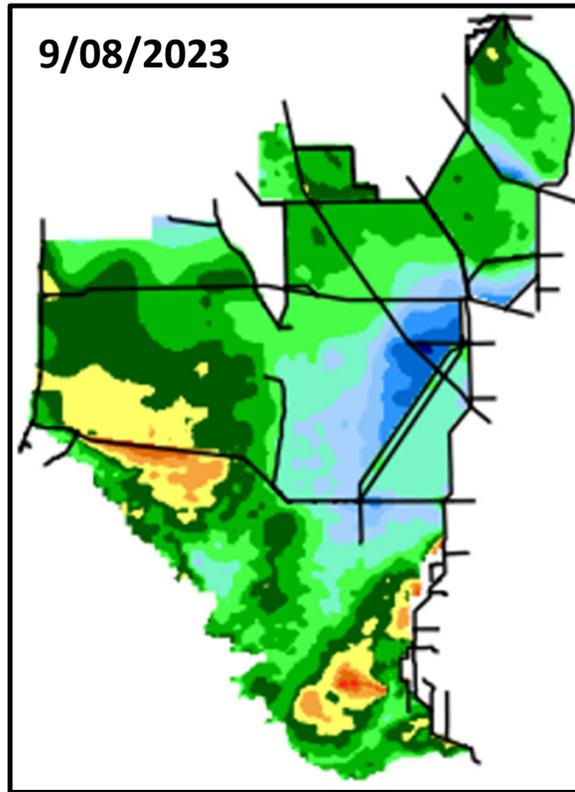
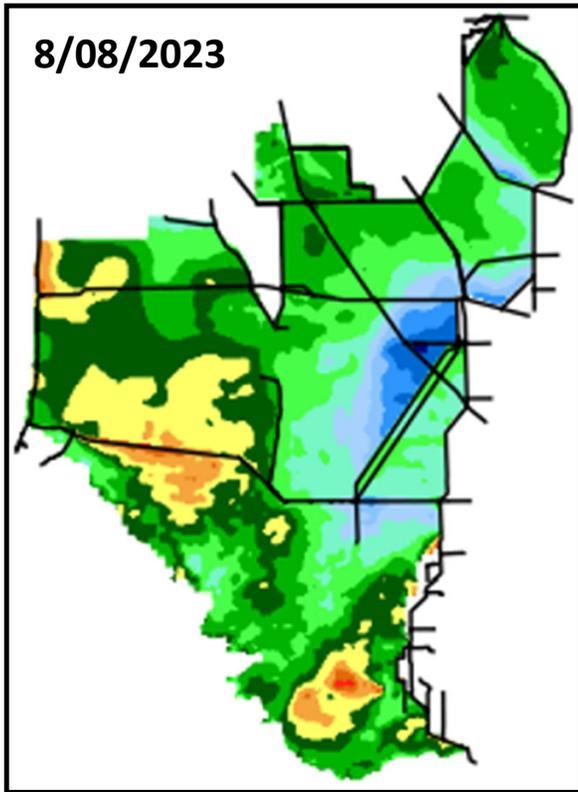


Seven-Day Mean Salinity (BBCW8 & BBCW10) & Total Daily Flow

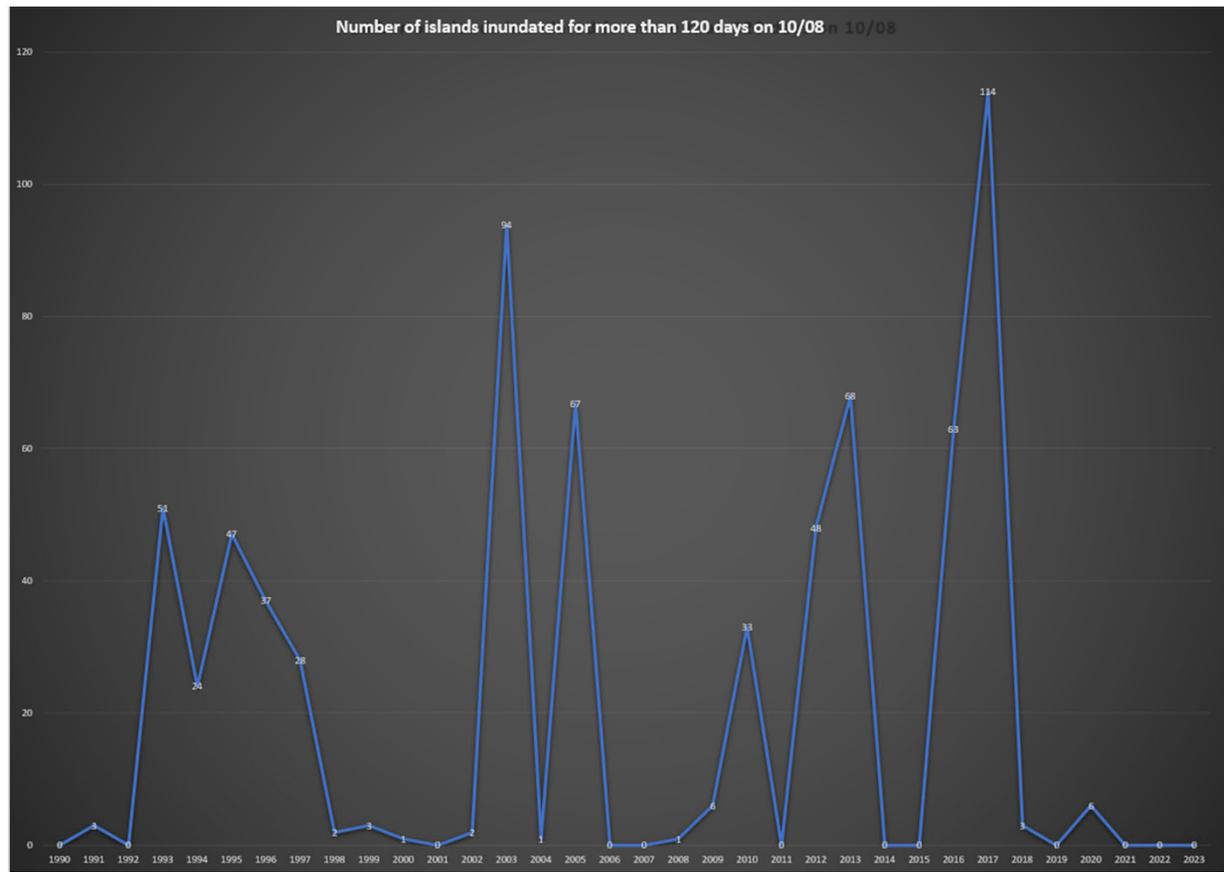
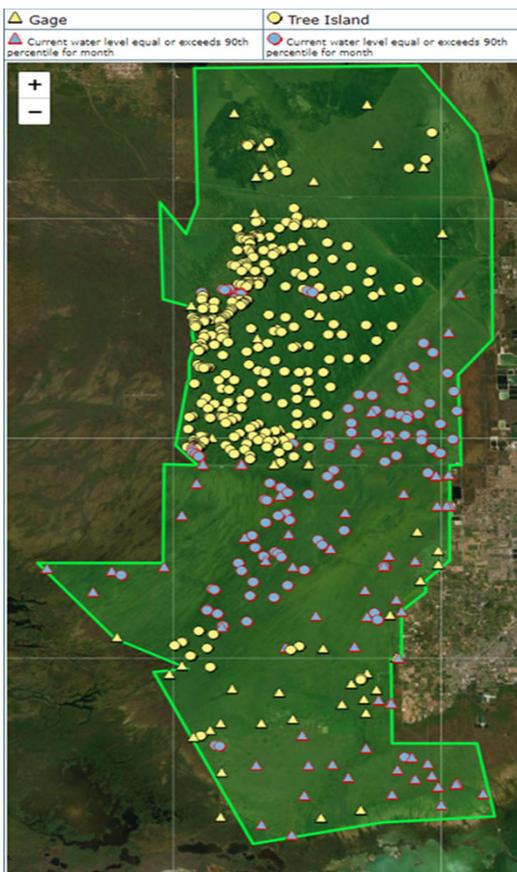


* Total flow from S20G, S20F, S21, S21A, S123, S700P

Everglades Water Depths



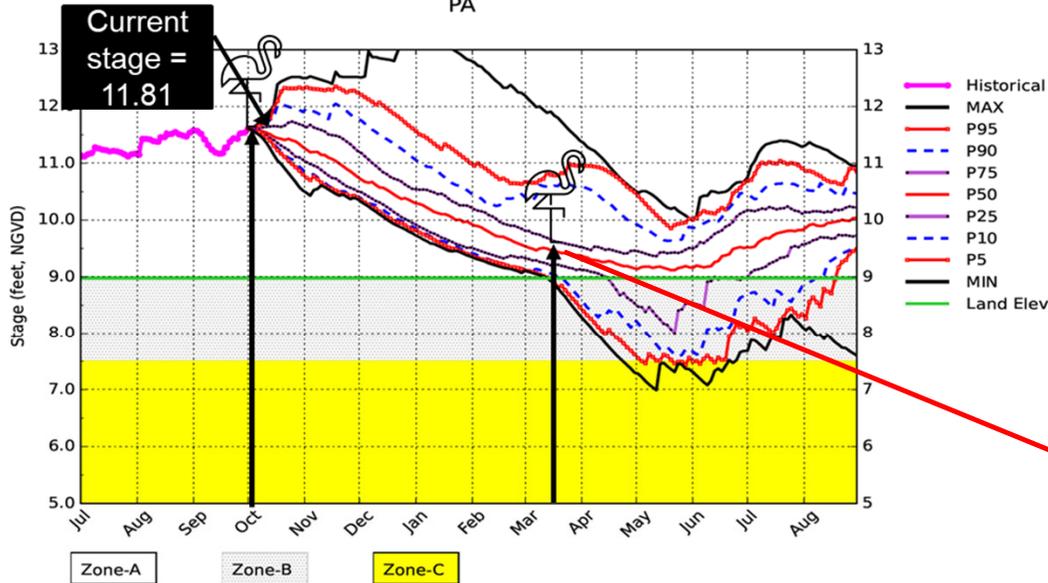
Tree Island Inundation 10/8/2023



Presenter: Lawrence Glenn

3A-3 Gage SFWMM October 2023 Position Analysis

PA



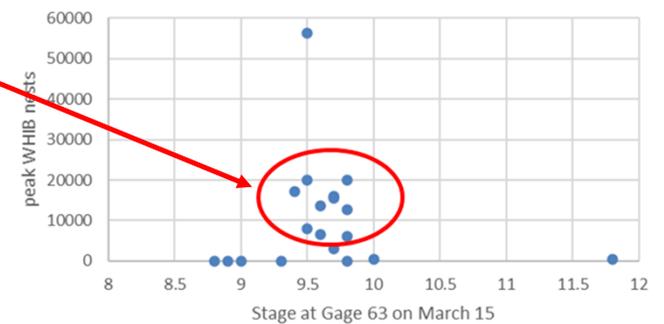
10/05/23 13:09:52

(See assumptions on the Position Analysis Results website)

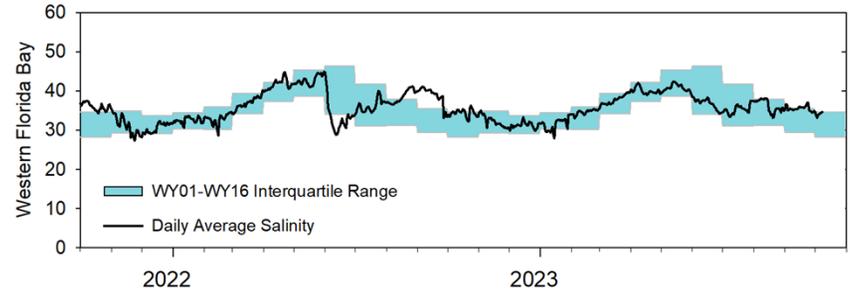
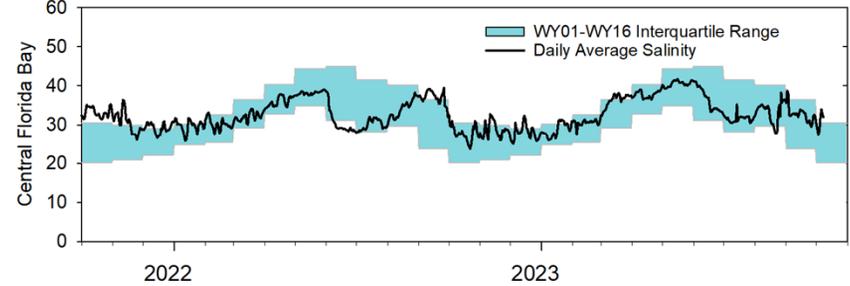
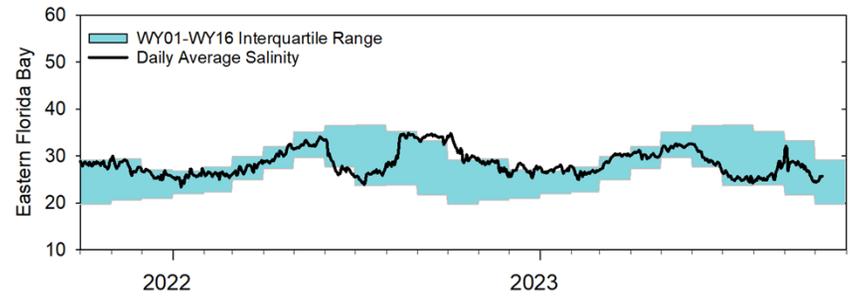
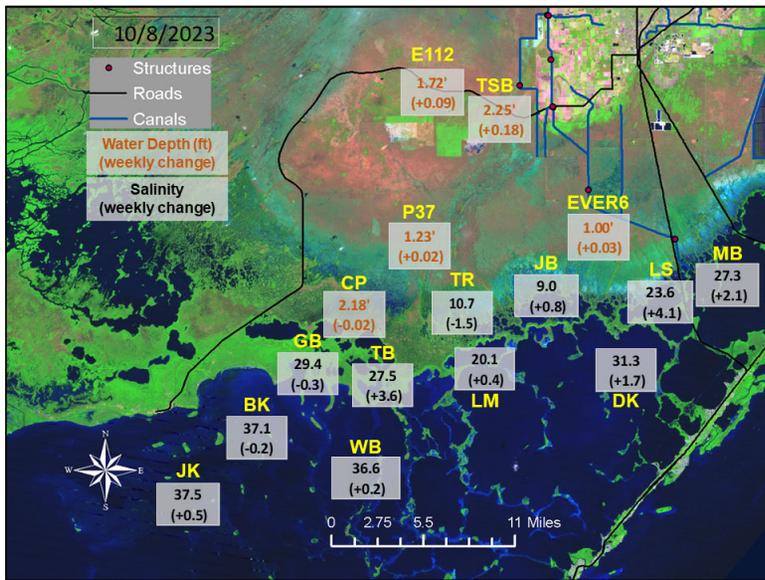
Aim for ~11.5 ft on October 1 and min of 9.4 on Mar 15
 166 days between Oct 1 and Mar 15 so average recession would be 0.09 ft/wk
 Optimal recession rate is 0.05-0.12 ft wk



Whib nest effort relative to stage on March 15 (gage 63)

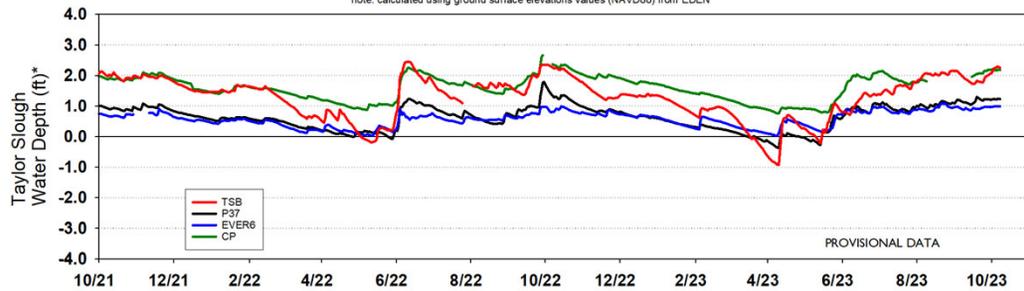


Florida Bay Salinity



Taylor Slough Water Depths

*note: calculated using ground surface elevations values (NAVD88) from EDEN

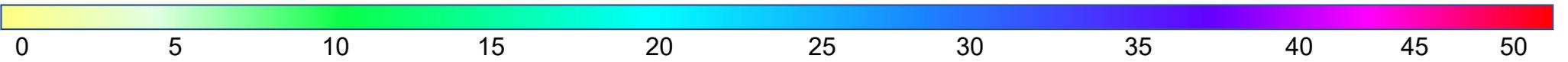
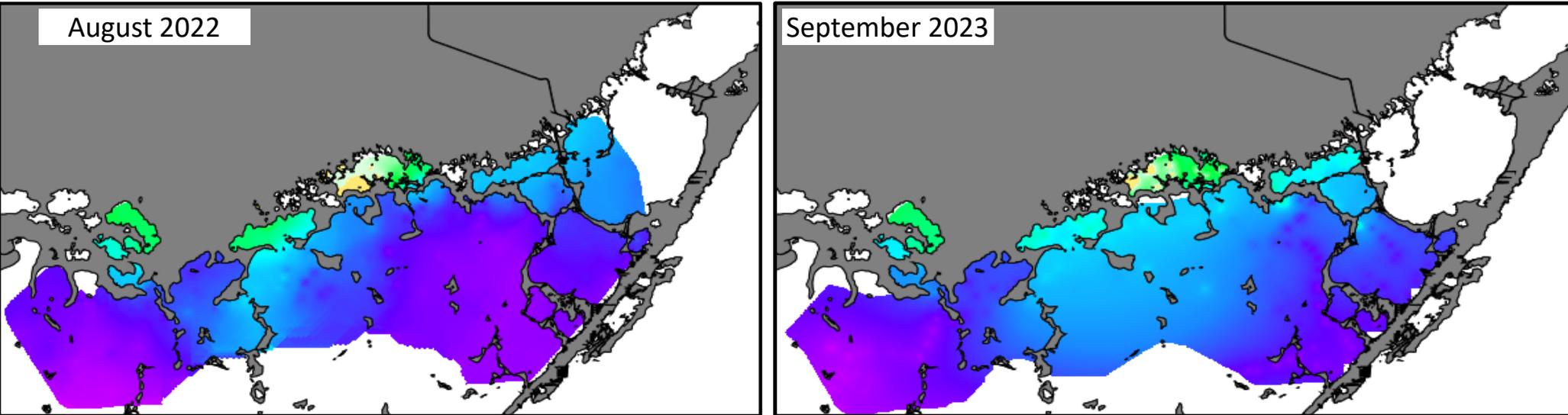


Presenter: Lawrence Glenn

Current FL Bay Salinity

August 2022

September 2023



Questions



White pelicans in the Phase I restoration area of Kissimmee chain of lake area. Photograph courtesy of Brent Anderson.