

CHAPTER 62-307
BEST MANAGEMENT PRACTICES WATER QUALITY MONITORING

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62-307.100 Definitions.

As used in this chapter:

- (1) "Department" means the Department of Environmental Protection.
- (2) "Nonpoint source discharger" means either a) the person responsible for the nonpoint source discharge, or b) the owner of the property from which the nonpoint source discharge originates.
- (3) "BMAP" means an adopted basin management action plan (BMAP) that implements a total maximum daily load (TMDL).
- (4) "Person" has the same meaning as provided in section 403.031, F.S.
- (5) "Sampling and analysis plan" means the monitoring plan required by this chapter.

Rulemaking Authority 403.067 FS. Law Implemented 403.067 FS. History—New 7-1-18.

62-307.200 Water Quality Monitoring In Lieu of Implementing BMPs.

(1) A nonpoint source discharger, whose discharge is located within a BMAP, must either submit a notice of intent to implement appropriate BMPs adopted in accordance with section 403.067(7)(c), F.S., or conduct water quality monitoring to demonstrate compliance with the water quality criteria for the parameters addressed by the BMAP.

(2) Within 180 days of the initial adoption of a BMAP or the effective date of this rule, whichever is later, a nonpoint source discharger choosing to conduct water quality monitoring in lieu of implementing BMPs pursuant to subsection (1), shall submit for Department approval a water quality sampling and analysis plan that meets all the requirements of this rule and chapter 62-160, F.A.C.

(3) A sampling and analysis plan shall include the following components:

(a) A description of the physical and hydrogeological characteristics of the property and the surrounding area, including, as applicable:

1. The direction and rate of surface water and groundwater flow;
2. Vertical permeability, thickness, competence, and extent of any confining beds;
3. Topography, soil information, and surface water drainage systems surrounding the site;
4. Identification and location of wells, surface water discharge points, and surface water intakes within 500 feet of the property and within the property boundary; and
5. The locations of all surface waters and their classifications including springs within one quarter mile of the property, and onsite sinkholes with depths exceeding the seasonal high water table or that are perched;

(b) Proposed methodology used to determine compliance with water quality criteria and any deviations in the quality of the receiving water in downgradient monitoring locations;

- (c) Proposed locations of monitoring used to determine compliance;
- (d) Proposed water quality indicators (chemical, physical, and biological);
- (e) Proposed sampling methods and frequency;
- (f) Proposed data management and assessment; and
- (g) Proposed reporting schedule and deliverables.

(4) Amendments or changes to sampling and analysis plans must be approved by the Department.

(5) Sampling and analysis plans must be amended or changed if any of the following occurs:

(a) New analytical methods, sampling or other field procedures, or instruments or equipment that affect data quality become available;

(b) The sampling or analysis contractor is changed;

(c) The scope of work is substantially altered; or

(d) Other changes are made that affect the data quality objectives of the sampling and analysis plan.

(6) Approved sampling and analysis plans expire after 5 years. At least 180 days before expiration of an approved sampling and analysis plan, the nonpoint source discharger shall resubmit for Department approval a water quality sampling and analysis plan that meets all the requirements of this rule and chapter 62-160, F.A.C.

Rulemaking Authority 403.067 FS. Law Implemented 403.067 FS. History—New 7-1-18.

62-307.300 Implementation Procedures.

(1) As provided in an approved sampling and analysis plan, a nonpoint source discharger must ensure that water samples are taken at the frequency at all locations set forth in the approved sampling and analysis plan.

(2) The collected water samples must be tested in accordance with the approved sampling and analysis plan.

(3) Sample collection and analytical test methods on the collected samples shall be conducted in accordance with chapter 62-160, F.A.C.

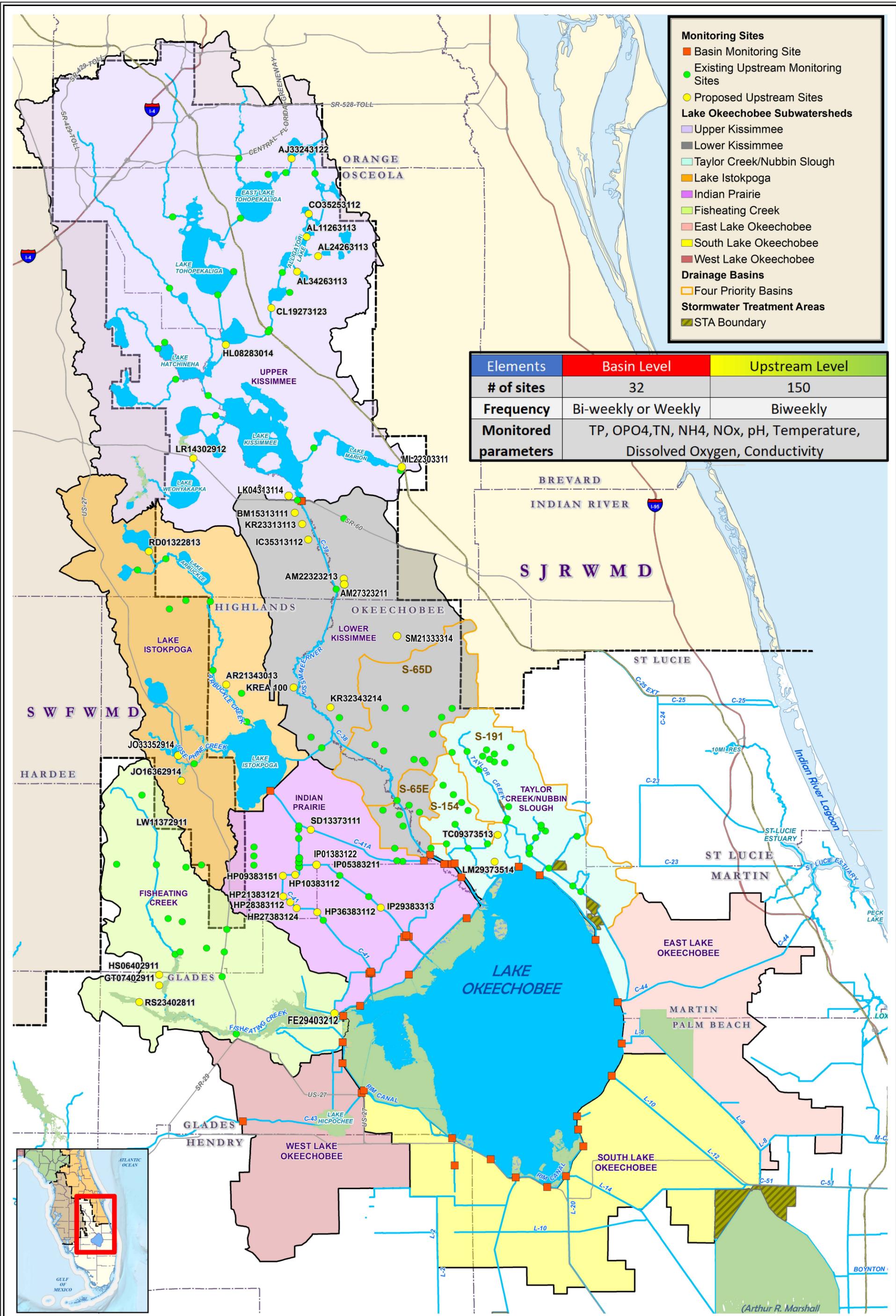
(4) Monitoring records must be retained onsite for at least 5 years and be made available for inspection upon request.

(5) The nonpoint source discharger shall submit an annual report to the Department consistent with an approved sampling and analysis plan. The annual report must include all the laboratory analytical test results on the water samples taken.

(6) The Department shall verify implementation of nonagricultural nonpoint source BMPs required by section 403.067(7), F.S., by inspection or other appropriate compliance mechanisms.

(7) The Department shall have all remedies available to it under Florida law, including those in Sections 403.121, 403.141, and 403.161, F.S., to enforce compliance with this rule chapter or section 403.067(7)(c), F.S.

Rulemaking Authority 403.067 FS. Law Implemented 403.067 FS. History—New 7-1-18.



Monitoring Sites

- Basin Monitoring Site
- Existing Upstream Monitoring Sites
- Proposed Upstream Sites

Lake Okeechobee Subwatersheds

- Upper Kissimmee
- Lower Kissimmee
- Taylor Creek/Nubbin Slough
- Lake Istokpoga
- Indian Prairie
- Fisheating Creek
- East Lake Okeechobee
- South Lake Okeechobee
- West Lake Okeechobee

Drainage Basins

- Four Priority Basins

Stormwater Treatment Areas

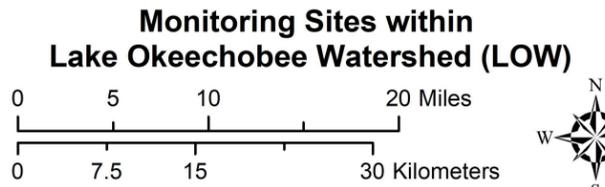
- STA Boundary

Elements	Basin Level	Upstream Level
# of sites	32	150
Frequency	Bi-weekly or Weekly	Biweekly
Monitored parameters	TP, OPO4, TN, NH4, NOx, pH, Temperature, Dissolved Oxygen, Conductivity	



BASE CREDITS:
 State plane projection, Florida east zone,
 NAD 83-HARN, US feet.

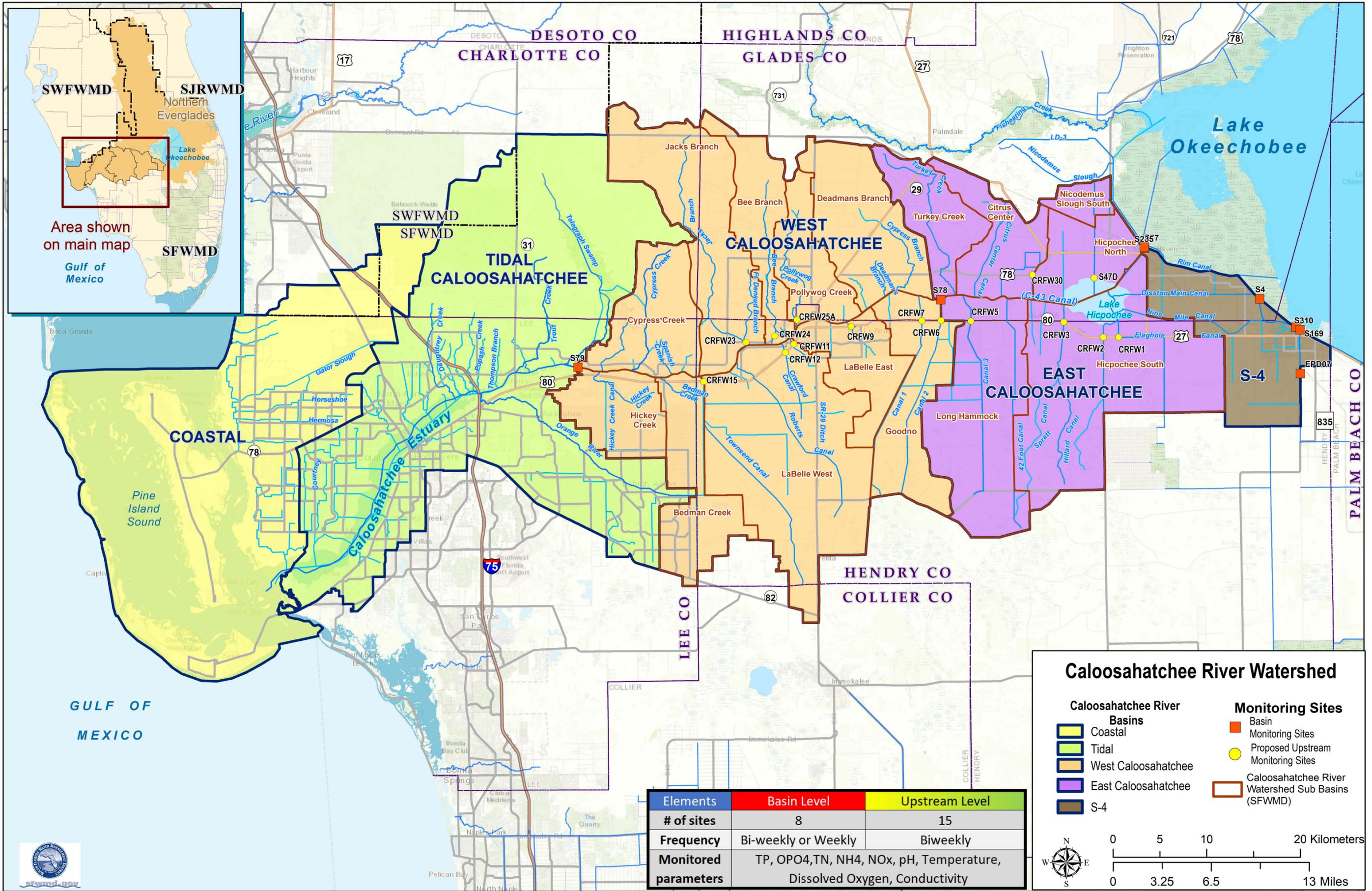
South Florida Water Management District
 3301 Gun Club Rd., West Palm Beach, Florida 33406
 (561) 686-8800; www.sfwmd.gov



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October 2019



Caloosahatchee River Watershed

Caloosahatchee River Basins

- Coastal
- Tidal
- West Caloosahatchee
- East Caloosahatchee
- S-4

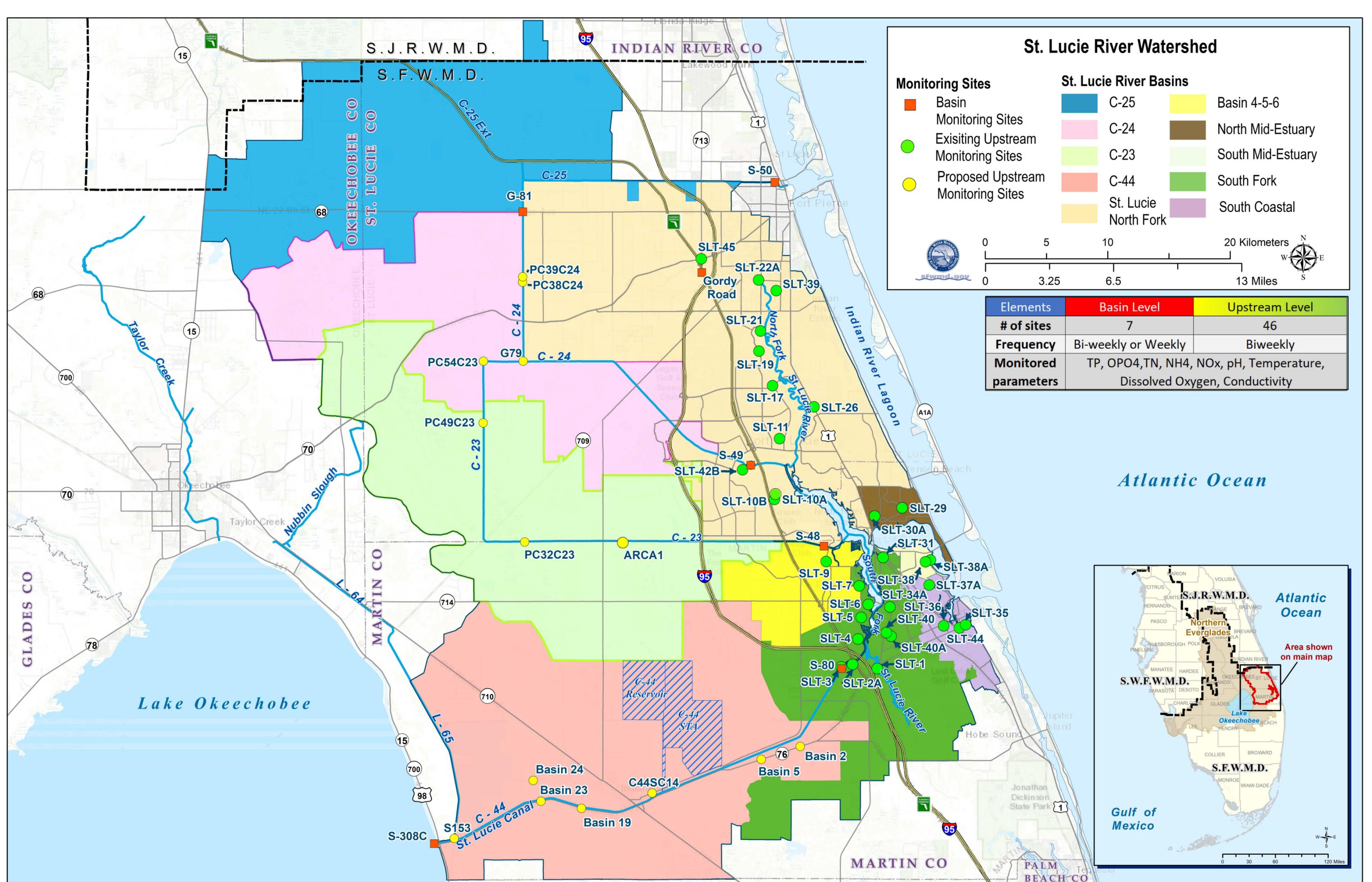
Monitoring Sites

- Basin Monitoring Sites
- Proposed Upstream Monitoring Sites
- Caloosahatchee River Watershed Sub Basins (SFWMD)

0 5 10 20 Kilometers
0 3.25 6.5 13 Miles

Elements	Basin Level	Upstream Level
# of sites	8	15
Frequency	Bi-weekly or Weekly	Biweekly
Monitored parameters	TP, OPO4, TN, NH4, NOx, pH, Temperature, Dissolved Oxygen, Conductivity	





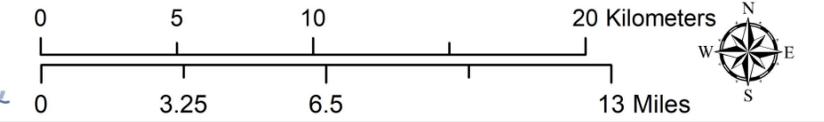
St. Lucie River Watershed

Monitoring Sites

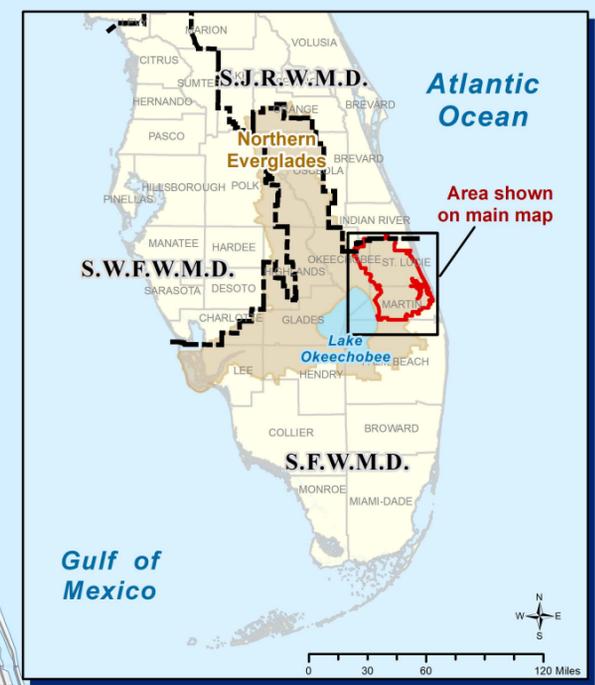
- Basin Monitoring Sites
- Existing Upstream Monitoring Sites
- Proposed Upstream Monitoring Sites

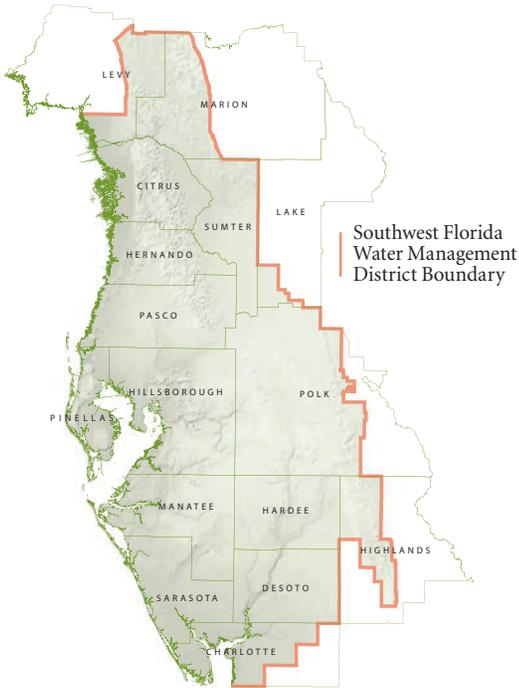
St. Lucie River Basins

- C-25
- C-24
- C-23
- C-44
- St. Lucie North Fork
- Basin 4-5-6
- North Mid-Estuary
- South Mid-Estuary
- South Fork
- South Coastal



Elements	Basin Level	Upstream Level
# of sites	7	46
Frequency	Bi-weekly or Weekly	Biweekly
Monitored parameters	TP, OPO4, TN, NH4, NOx, pH, Temperature, Dissolved Oxygen, Conductivity	





Southwest Florida Water Management District Boundary

To qualify for FARMS funding, projects must be located in the Southwest Florida Water Management District.



Surface Water Wet Well and Engine



Automated Irrigation Valve



WaterMatters.org/FARMS

All FARMS cost-share reimbursement is provided pursuant to Chapter 40D-26, Florida Administrative Code.



Florida Department of Agriculture and Consumer Services

The Southwest Florida Water Management District (District) does not discriminate on the basis of disability. This nondiscrimination policy involves every aspect of the District's functions, including access to and participation in the District's programs and activities. Anyone requiring reasonable accommodation as provided for in the Americans with Disabilities Act should contact the District's Human Resources Bureau Chief, 2379 Broad St., Brooksville, FL 34604-6899; telephone (352) 796-7211 or 1-800-423-1476 (FL only), ext. 4703; or email ADACoordinator@WaterMatters.org. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1-800-955-8771 (TDD) or 1-800-955-8770 (Voice).

COMAY 07-16

FARMS Program



Facilitating Agricultural Resource Management Systems



FARMS is an agricultural cost-share reimbursement program that reduces groundwater withdrawals from the Upper Floridan aquifer through conservation and alternative water supply best management practices (BMPs). In conjunction with water supply BMPs, water quality and natural systems improvement BMPs also may be cost-shared in certain priority areas.

FARMS reimbursement can amount to as much as 50–75 percent of the total project cost for eligible BMPs.

Benefits of FARMS

- Improved crop yields
- Optimized irrigation scheduling, which leads to decreased pumping, equipment maintenance and energy costs
- Reduced fertilizer use and improved weed control
- Free flowmeter calibration testing that satisfies regulatory requirements
- Active water resources conservation and environmental stewardship

Meeting Growers' Needs

Growers decide on the most appropriate BMPs for their operation and coordinate with FARMS staff to obtain funding for eligible projects. Growers manage, operate and maintain their own projects and are reimbursed for eligible expenses. FARMS staff assist eligible growers with implementation of BMPs, regulatory issues and reimbursement.



Weather Station with Telemetry



Riser Culverts and Water-Control Structures



Surface Water or Tailwater Irrigation Pumps and Filters



Remote Irrigation Zone Controls, and Soil Moisture and Climate Sensor Telemetry

Examples of BMPs Eligible for Cost-Share

- Tailwater recovery/surface water irrigation pump stations, including pump, engine, fuel tank, filters and mainline pipe
- Irrigation system conversion to a more efficient system
- Weather stations, including rain gauge, anemometer and wireless telemetry
- Soil moisture sensors, including wireless telemetry
- Water-control structures
- Reclaimed/reuse water connections
- Automatic pump start and stops
- Automated irrigation valves
- Rainwater harvesting systems

Other water quantity and/or water quality BMPs may be eligible for cost-share within specific priority areas or areas of concern. Contact FARMS staff to learn about what BMPs and/or programs are available for your operation.

Getting Started

Growers should contact a FARMS staff member to determine project eligibility and funding prior to beginning the application process. Completed FARMS applications are submitted to the District's Governing Board on a monthly schedule.

For more information on the FARMS program, call (813) 985-7481, ext. 4413 or visit WaterMatters.org/FARMS.

Mini-FARMS

*Facilitating Agricultural Resource
Management Systems*

Program



Mini-FARMS

Mini-FARMS is a cost-share program that assists agricultural operations of 100 acres or less to conserve water and protect water quality within the Southwest Florida Water Management District (District). Mini-FARMS projects implement the Florida Department of Agriculture and Consumer Services (FDACS)-adopted best management practices (BMPs)*.

Under the Mini-FARMS Program guidelines, the District will reimburse growers 75 percent of their project costs up to \$5,000 per project.

Mini-FARMS Program Guidelines

Growers who wish to participate in Mini-FARMS must be:

- ◆ Actively engaged in agriculture for the last two years.
- ◆ In compliance with District regulatory requirements.
- ◆ Enrolled in the applicable FDACS-approved BMP program.

In addition, growers will be required to complete an application and budget estimate of project costs. Project materials cannot be purchased prior to receiving approval from the District. FDACS staff is available to assist with the application process.

*A quick link to FDACS-adopted BMPs can be found at WaterMatters.org/FloridaBMPs



Soil Moisture Metering



Weather Station



Field Soil Moisture Telemetry



Rainwater Harvesting

Mini-FARMS Program Process

1. Grower contacts FDACS staff.
2. Grower and FDACS staff complete BMP enrollment.
3. Grower completes project budget and two-page application and submits to FDACS staff.
4. District releases a purchase order and sends letter to grower.
5. Grower signs maintenance agreement (can be a two- to three-year agreement).
6. Grower completes project and contacts FDACS staff.
7. FDACS staff verifies completion and submits proof of payment to the District.
8. District releases payment within 30 days.
9. FDACS staff follows up on project annually.

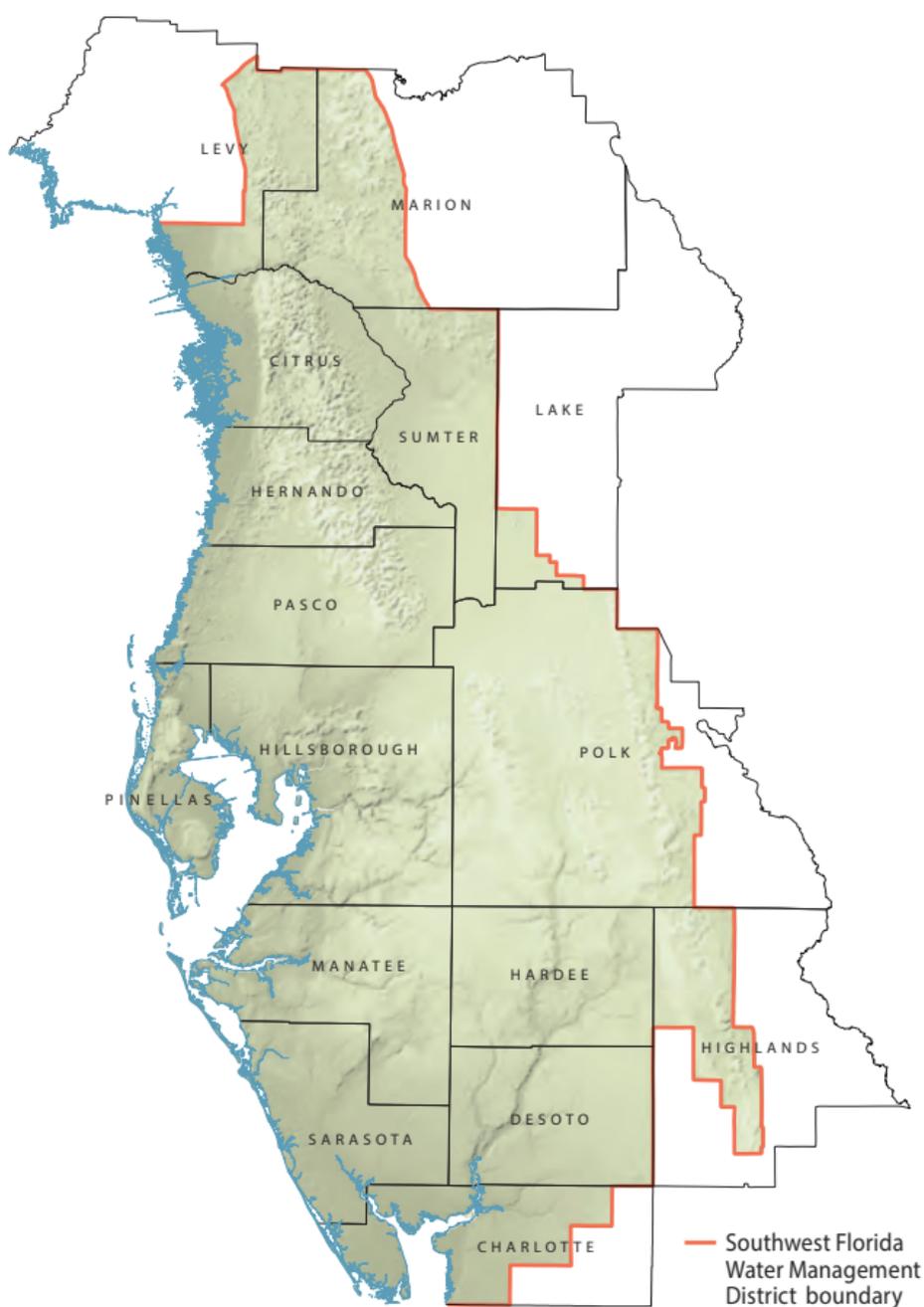
Eligible Cost-Share Project Items

Mini-FARMS projects can include, but are not limited to:

- ◆ Soil moisture probes/tensiometers
- ◆ Weather stations with evapotranspiration measurements
- ◆ Irrigation pump station automation
- ◆ Irrigation conversions
- ◆ Irrigation pumps, controls, filtration and infrastructure

Eligible items may also include other approved water conservation projects.

Mini-FARMS projects are for agricultural operations that are enrolled in an FDACS-adopted best management practices program and located within the District.



For More Information

Florida Department of Agriculture and
Consumer Services
Office of Agricultural Water Policy

NORTHERN COUNTIES FIELD STAFF CONTACT
(Citrus, Hernando, Hillsborough, Pasco, Pinellas, Sumter,
and portions of Lake, Levy, Marion and Polk counties)

Matt Warren, Environmental Manager

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(863) 773-2164

Matt.Warren@FreshFromFlorida.com

SOUTHERN COUNTIES FIELD STAFF CONTACT
(DeSoto, Hardee, Manatee, Sarasota and portions of
Charlotte and Highlands counties)

Tricia Hobson, P.W.S., Environmental Specialist III

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Southwest Florida
Water Management District

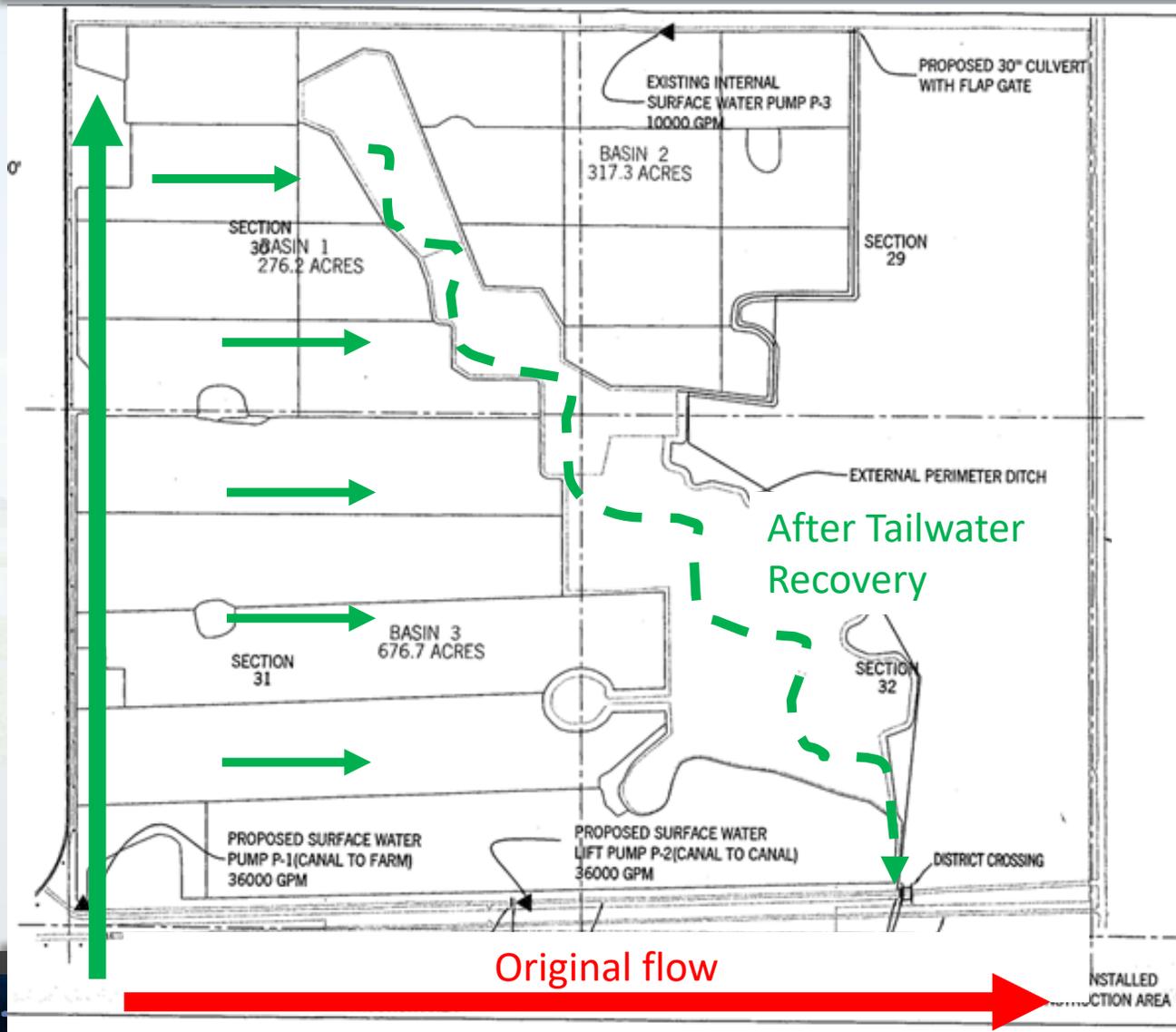
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Example Tailwater Recovery System



Tailwater recovery project to recover stormwater runoff from upstream producers and pump it into the property for reuse.

Cost: \$400,000 (65% Cost-shared, 35% producer)

No site-specific pre- post- data

Discharge from sub-basin: 4 inches/year (below the basin average of 11 inches)