



# Central & Southern Florida (C&SF) Broward Basins Flood Resiliency Study

## HIGHLIGHTS

### Study Authority:

Section 216 of the Flood Control Act of 1970 within the Central and Southern Florida (C&SF) Project

### Prepared By:

The South Florida Water Management District (SFWMD), pursuant to Section 203 of the Water Resources Development Act (WRDA) of 1986, will submit a Final Report to the Assistant Secretary of the Army for Civil Works to consider inclusion in WRDA 2026

### Study Focus:

Develop Flood Risk Management and Flood Resiliency Solutions for the existing C&SF Project in the interest of the public, community, quality of life (and life safety), economy, and the environment

### Study Area:

Approximately 420 square miles within the eastern portion of Broward County and a small portion of southern Palm Beach County

### Land Cover:

Highly urbanized area subject to compound flooding risks including extreme rainfall, groundwater sea level rise, high tides, and surge

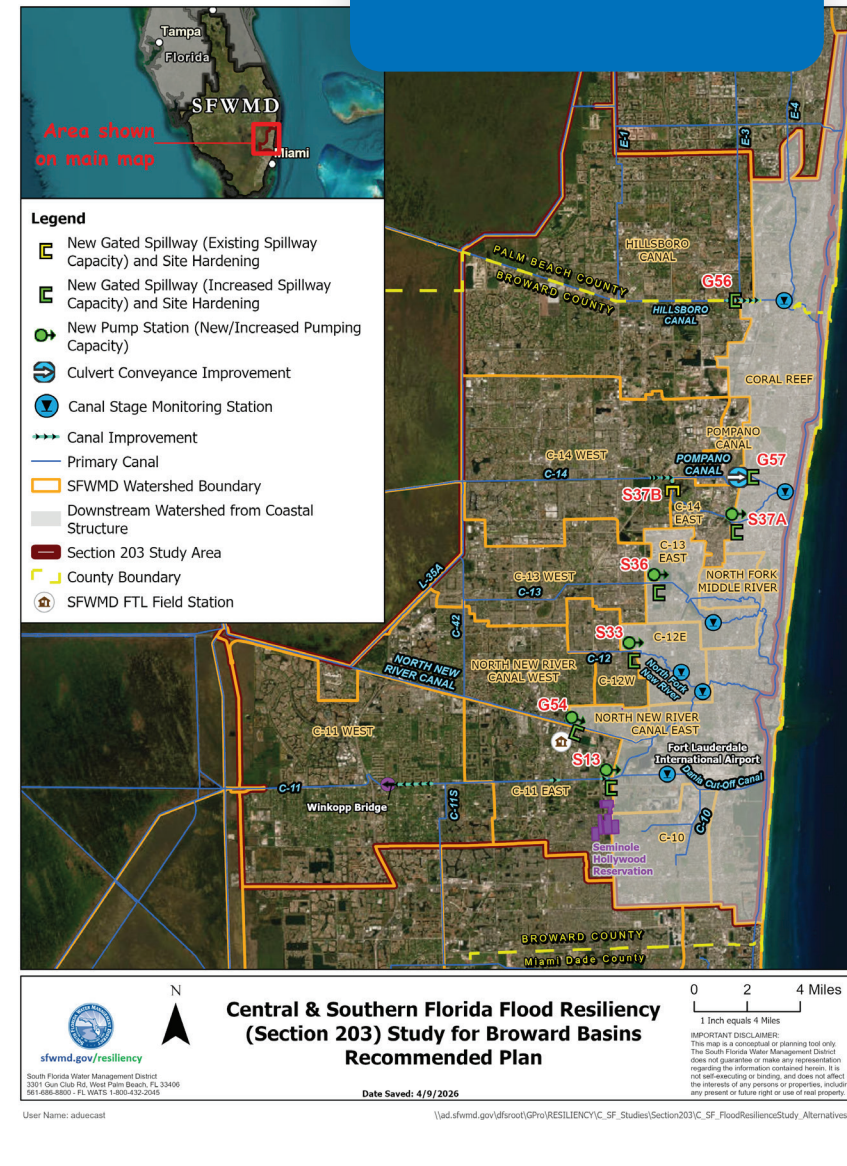
### Period of Analysis:

50 years following estimated completion of construction, from 2035 to 2085

### C&SF Authorized Project Action Area:

302 square miles of managed upstream watersheds with 9 water control structures owned and operated by the SFWMD

## SECTION 203



## STUDY GOAL

To develop, evaluate and recommend flood risk management measures and adaptation strategies to build flood resiliency in the communities served by the C&SF system, now and in the future.

## OBJECTIVES

Enhance the C&SF system water control structures' functionality and capacity to reduce flood damages and improve resiliency caused by inundation and changed conditions within eastern Broward County and southern Palm Beach County over the 50-year period of analysis from 2035-2085.

## PROBLEMS

The existing C&SF system was not designed to manage the increasing flood risks associated with runoff, storm surge, high tides and a high groundwater table, which are exacerbated by changed conditions including sea level rise, extreme rainfall events and land development patterns. Therefore, natural, agricultural and highly-dense urban areas in south Florida are currently experiencing significant flooding and conditions are expected to worsen in the future. Enhancements to the existing C&SF infrastructure are necessary to provide flood protection and water supply to approximately 9 million people.

## OPPORTUNITIES

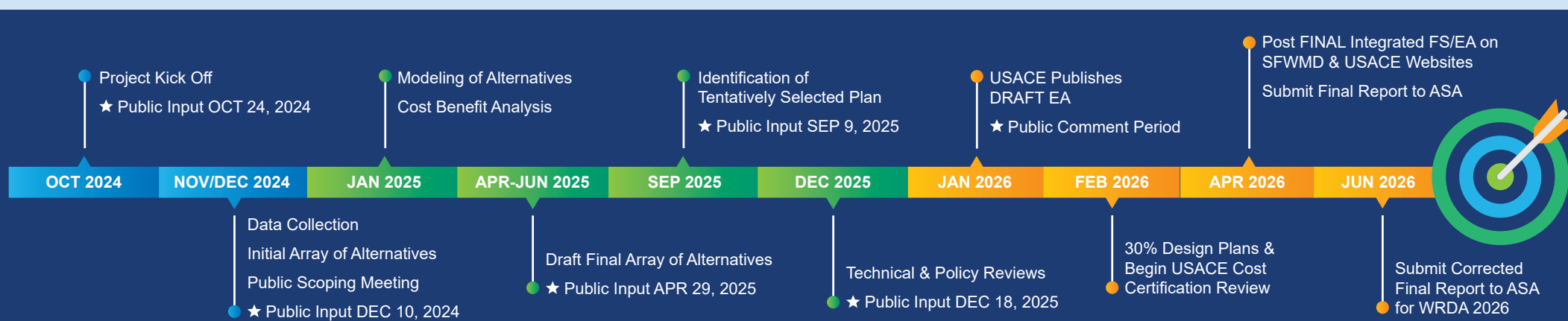
- Manage public and life safety caused by inundation.
- Manage risk to historical and cultural resources.
- Unify coordination and build trust with stakeholders and the public.

## CONSTRAINTS

- Avoid, minimize, and/or mitigate the transfer of flood risk to other locations within the Study Area during the period of analysis.
- Avoid, minimize, and/or mitigate impacts to the stated objectives and authorized benefits of other federal studies and projects within the Study Area.

### Study Partnerships:

Florida Department of Environmental Protection, Broward County, and technical and federal activities assistance from the U.S. Army Corps of Engineers (USACE) Jacksonville District



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[www.sfwmd.gov/our-work/central-and-southern-florida-flood-resiliency-study-broward-basins-section-203](http://www.sfwmd.gov/our-work/central-and-southern-florida-flood-resiliency-study-broward-basins-section-203)

## RECOMMENDED PLAN

Basin	Structure	Existing Condition	Recommended Plan
Hillsboro Canal	G-56 Gated Spillway	(3) 20 ft wide spillway gates	NEW gated spillway w/ (4) 25 ft wide roller gates / demolition of existing structure ~1.1 miles of Hillsboro Canal improvement
Pompano Canal	G-57 Gated Spillway	(2) 14 ft wide spillway gates (1) 1400 linear ft 10 ft diam. culvert (upstream of G-57)	NEW gated spillway w/ (2) 21 ft wide roller gates / demolition of existing structure 2 NEW 1400 linear ft 10 ft diam. culverts (upstream of G-57)
C-14 West Basin	S-37B Gated Spillway	(2) 25 ft wide spillway gates	NEW gated spillway w/ (2) 25 ft wide roller gates / demolition of existing structure ~1.2 miles of C-14 Canal improvement
C-14 East Basin	S-37A Gated Spillway	(2) 25 ft wide spillway gates	NEW gated spillway w/ (3) 25 ft wide roller gates / demolition of existing structure NEW 1200 CFS pump station w/ 400 CFS auxiliary pump
C-13 West Basin	S-36 Gated Spillway	(1) 25 ft wide spillway gate	NEW gated spillway w/ (2) 16 ft wide roller gates / demolition of existing structure NEW 510 CFS pump station
C-12 Basin	S-33 Gated Spillway	(1) 20 ft wide spillway gate	NEW gated spillway w/ (2) 20 ft wide roller gates / demolition of existing structure NEW 510 CFS pump station w/ 170 CFS auxiliary pump
North New River Canal West Basin	G-54 Gated Spillway	(3) 16 ft wide spillway gates	NEW gated spillway w/ (4) 20 ft wide roller gates / demolition of existing structure NEW 810 CFS pump station
C-11 East and West Basins	S-13 Pump Station and Gated Spillway	540 CFS pump station with (1) 16 ft wide spillway gate	NEW gated spillway w/ (2) 14 ft wide roller gates / demolition of existing structure NEW 1080 CFS pump station w/360 CFS auxiliary pump ~2.0 miles of C-11 Canal improvement (1.5 miles stabilized with riprap)



## COMPREHENSIVE BENEFITS\*



### Positive Return on Investment

\$2.6B annually in avoided property damage and transportation savings (up to \$1.2B additional in future extreme rainfall conditions)



### Less Business Interruption

\$2M annual reduction in Direct Output Loss (up to \$100M\*\*), Additional \$1.6M savings in annually in secondary output of business interruption (up to \$80M\*\*)



### More Jobs, Stronger Regional Economy

\$264M in Annual Total Output throughout construction period (up to \$1.8B); \$2.6M from operations (up to \$130M\*\*)



### People Benefited

1.35M residents; Up to \$4.4M total annualized savings from displacement costs



### Protection of Critical Infrastructure

Up to 20% reduction in flooded structures



### Environmental Quality Increase

Septic and sewer overflow reduction



### Protection Against Saltwater Intrusion

Improved headwater stages and avoided/delayed advanced treatment and wellfield relocation worth nearly \$200M\*\* (potential savings to capital investments)



### Lower Flood Insurance Rates

\$146M\*\* in potential NFIP premium cost reductions in FEMA Flood Zones AO, AH

\*under High SLR scenarios; \*\* Over Project Life (50 years)