

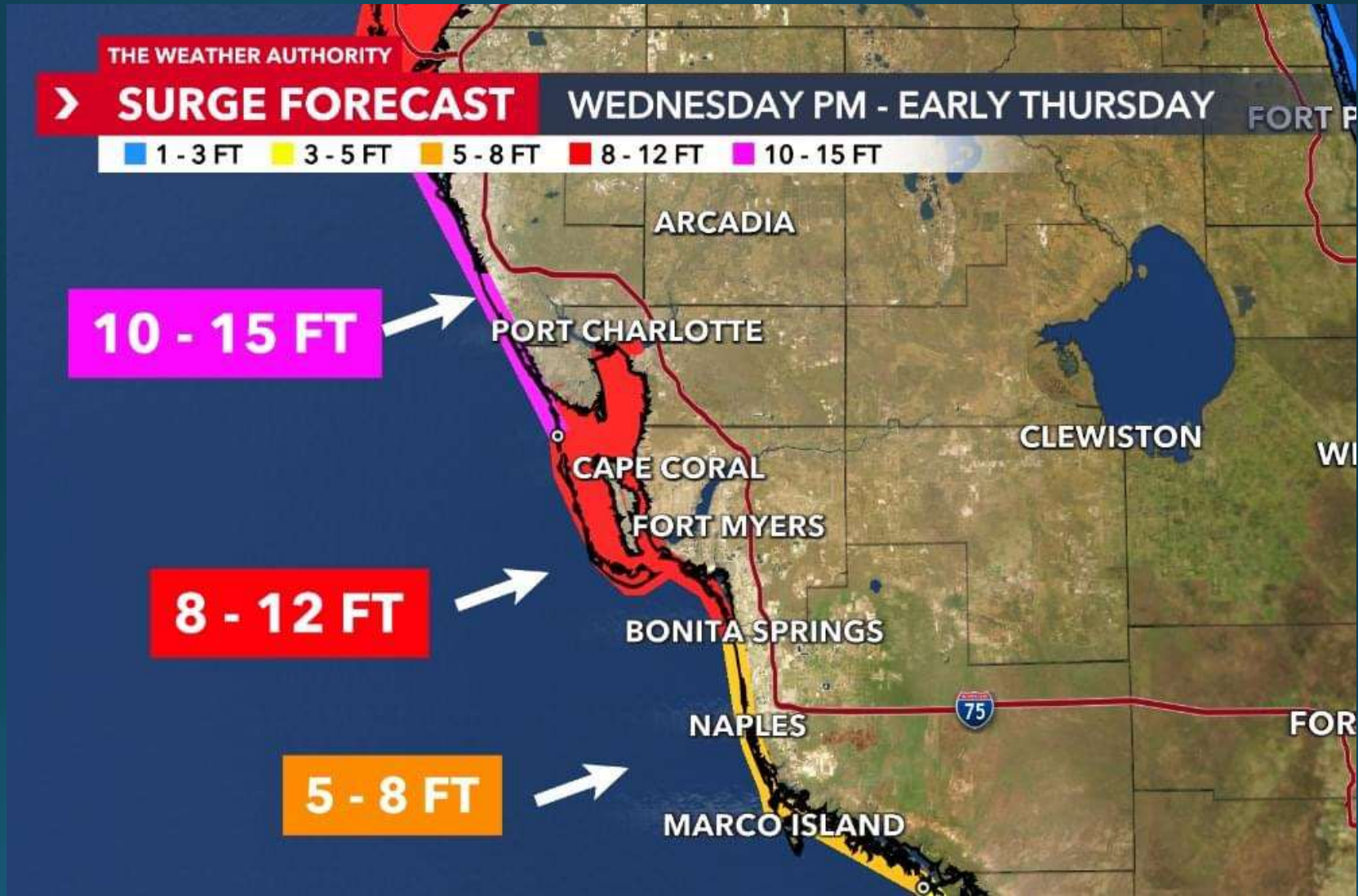
# HURRICANE MILTON

## October 9-10, 2024

View from Sanibel Captiva Rd., looking toward Blind Pass 10/12/24



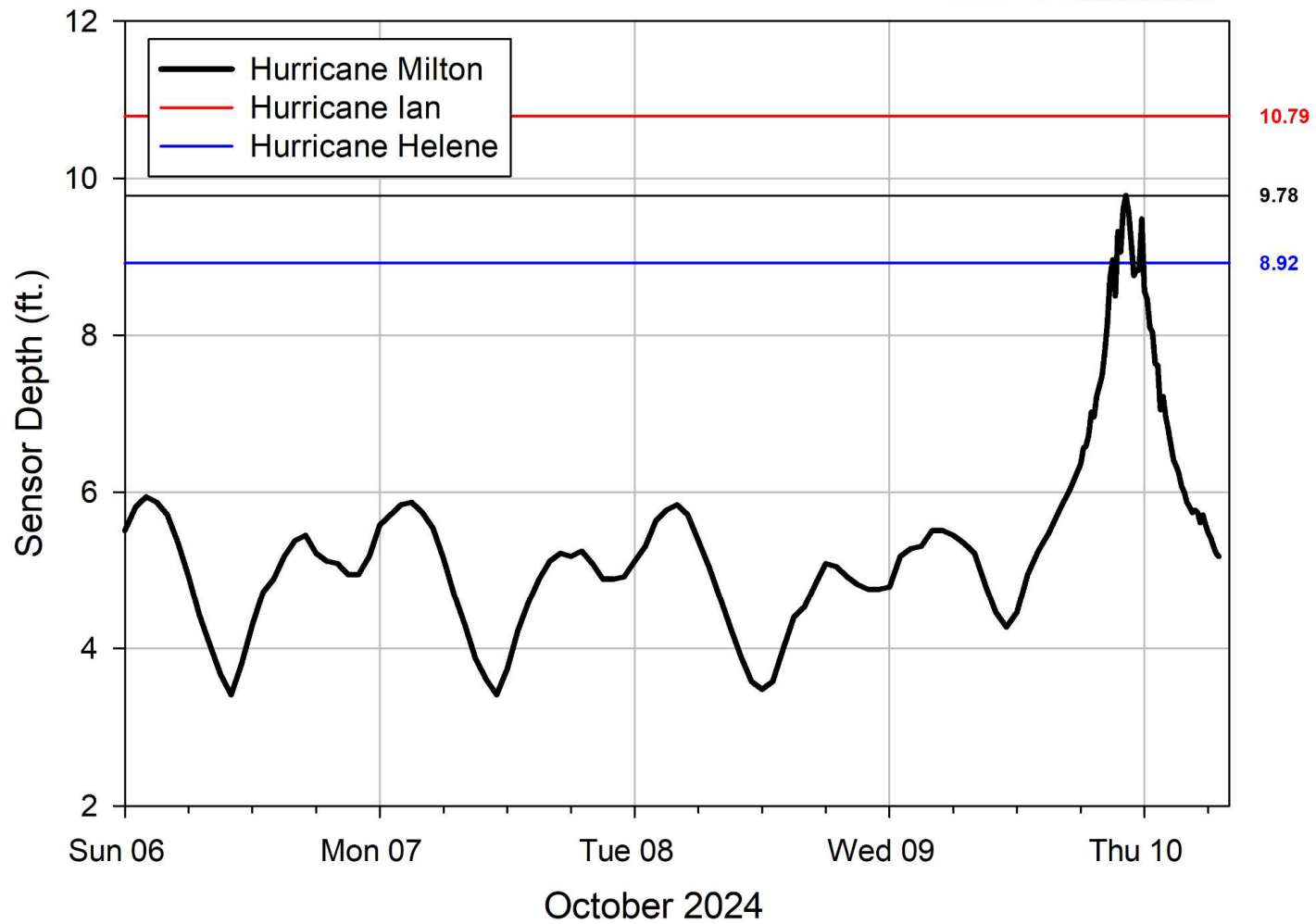
- WINK – 10/9 surge forecast



- SCCF Marine Lab – wind gust recorded at 63.5 mph – 10/9 @ 6:15 pm
- Rainfall
  - 10/8 – 0.25"
  - 10/9 - 2.5"
  - Dry storm
- Storm Surge – 5-6'
  - 10/9 – Sensors at Police Dock – 4' above normal tide



# Tarpon Bay RECON



# Sanibel Causeway



# LCEC Substation and Transmission Line



LCEC Sanibel  
Electrical Sub-Station



GPS Map Camera

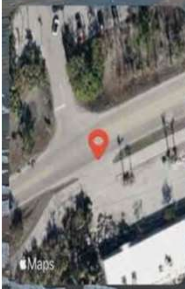


### Sanibel,FL,United States

Sanibel Captiva Trail, Sanibel, 33957,  
FL, United States  
Lat 26.435480, Long -82.080160  
10/10/2024 07:21 AM GMT-04:00  
Note : Captured by GPS Map Camera



GPS Map Camera



### Sanibel,FL,United States

Periwinkle Way, Sanibel, 33957, FL,  
United States  
Lat 26.441361, Long -82.059248  
10/10/2024 07:29 AM GMT-04:00  
Note : Captured by GPS Map Camera



GPS Map Camera

# Sanibel, FL, United States

Periwinkle Way, Sanibel, 33957, FL,  
United States

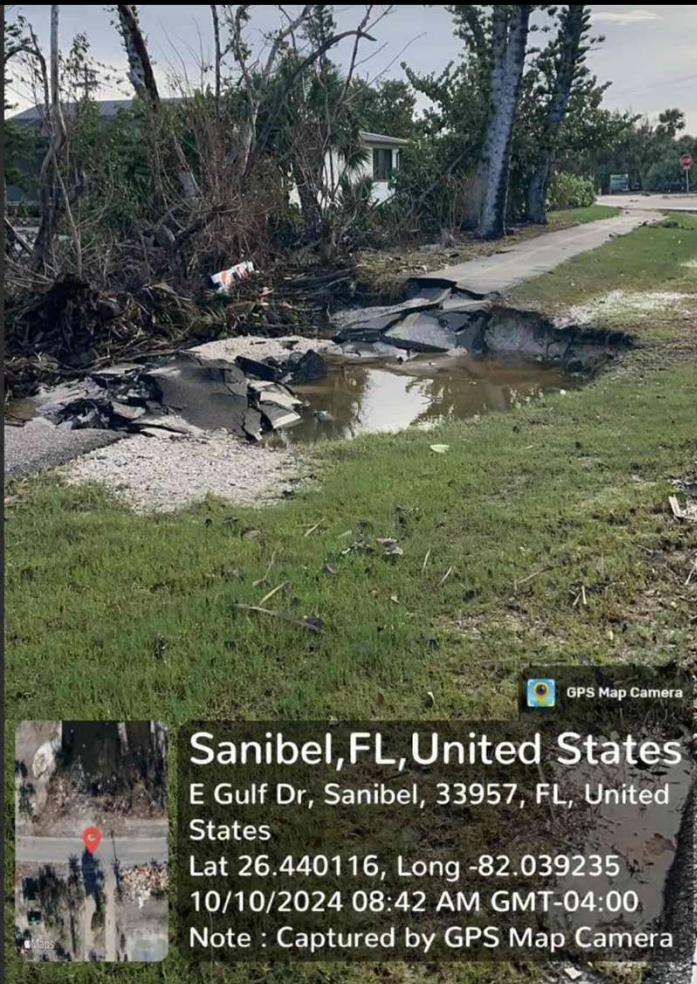
Lat 26.442393, Long -82.055440

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Note : Captured by GPS Map Camera







GPS Map Camera

### Sanibel, FL, United States

E Gulf Dr, Sanibel, 33957, FL, United States

Lat 26.440116, Long -82.039235  
10/10/2024 08:42 AM GMT-04:00

Note : Captured by GPS Map Camera



GPS Map Camera

### Sanibel, FL, United States

Middle Gulf Dr, Sanibel, 33957, FL, United States

Lat 26.437072, Long -82.045086  
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Note : Captured by GPS Map Camera



GPS Map Camera

### Sanibel, FL, United States

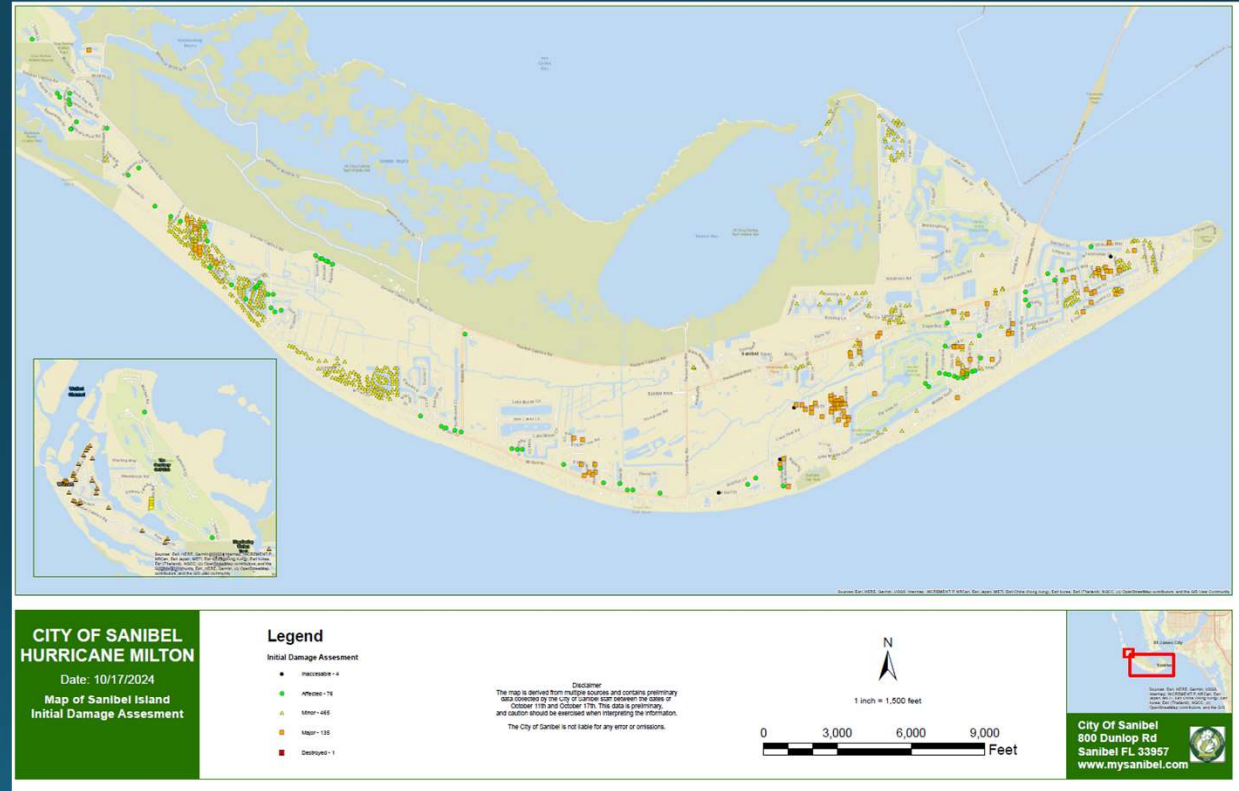
Rabbit Rd, Sanibel, 33957, FL, United States

Lat 26.430479, Long -82.107889  
10/10/2024 09:39 AM GMT-04:00

Note : Captured by GPS Map Camera

# Hurricane Milton

- Approximately 677 structures damaged or affected
- 76 – Affected
- 465 - Minor Damage - experienced flood waters 24 inches or less into primary living area or ground floor area (i.e. garage or storage under elevated house)
- 135 – Major Damage - experienced more than 24 inches but less than 36 inches into primary living area,
- 1 – Destroyed – Fire
- Property owners where the initial Damage Assessment indicates a property sustained Major Damage have received a letter from the City to meet FEMA requirements, inform property owners of the requirement for Building Permits



## Damage Assessment

# Permits...

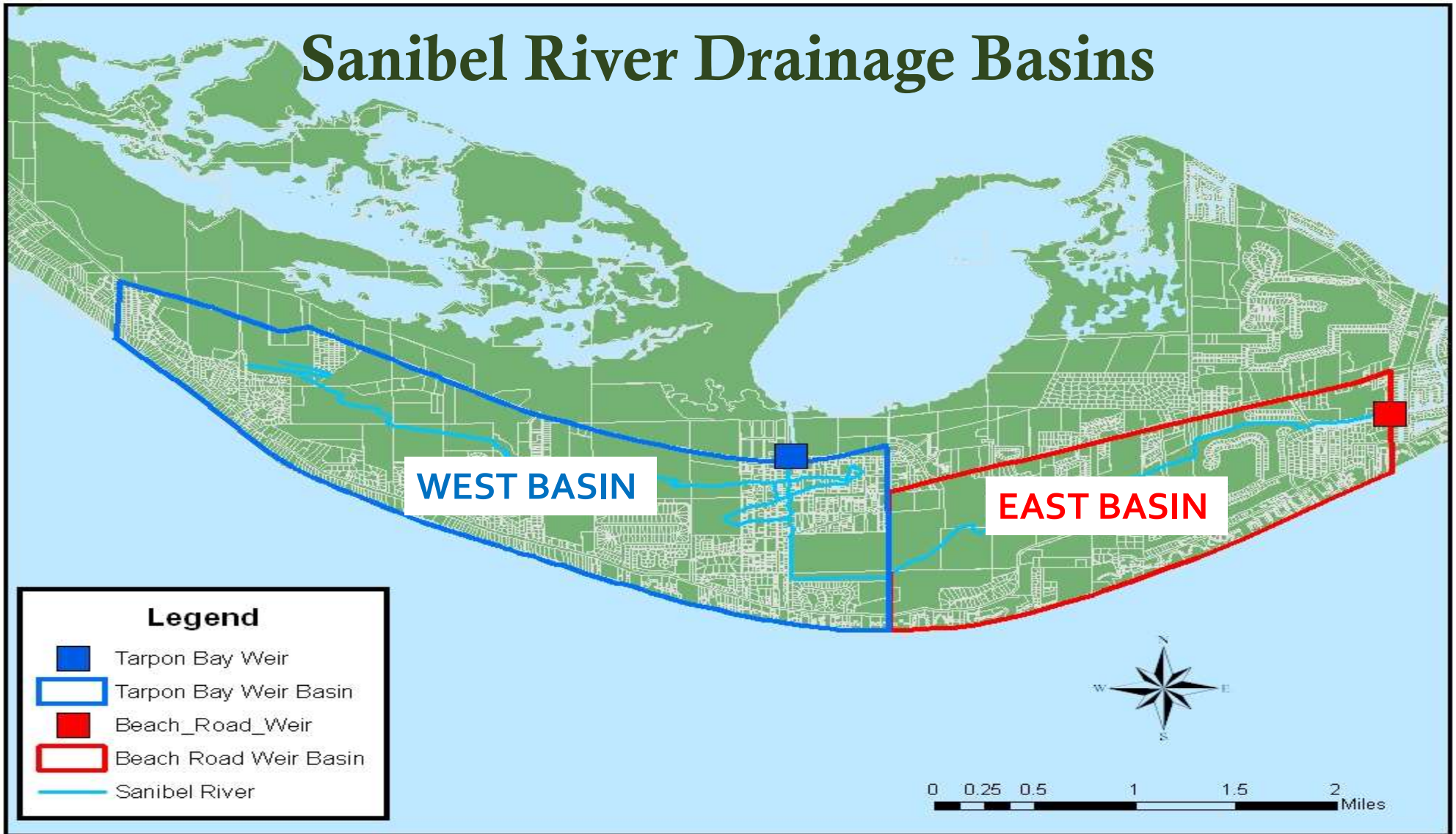
**Houses rehabilitating after Hurricane Ian, with an issued permit:**

Revise the scope of work to address any damage from Hurricane Helene or Hurricane Milton – increase in scope of work must still comply with FEMA 50% rule.

**Houses with closed permits after Hurricane Ian, or had no damage from Hurricane Ian, but have damage from Hurricane Helene or Hurricane Milton:**

Required to submit a building permit application, which will be reviewed for FEMA 50% rule based on the current scope of work (there is no cumulative or “look-back” for calculating FEMA 50%).

# Sanibel River Drainage Basins



# Tarpon Bay Weir West Basin



- Four mechanically operated, bottom release flow gates.
- Top of weir = 3.2'

# Beach Road Weir East Basin



- Two mechanically operated, bottom release flow gates.
- Top of weir = 2.7'
- Outfitted with reverse flow salinity gates reaching elevation 3.8'

# City of Sanibel Weir Control Policy

Developed in 1994 following the adoption of the 1992 update to the Surface Water Management Plan. Placed into action in 1997.

**Objective:** To maintain as much fresh water on island as possible to benefit the island's Interior Wetland System, so long as developed areas are not adversely impacted.

*Sanibel Ordinance 94-75*

*Adopted by Sanibel City Council and Approved by Florida DEP*

# City of Sanibel Weir Control Policy

Established through City Council approval in 1997.

Weirs are opened if:

**1) Interior Flooding Conditions**

- a. Public or private streets impassible
- b. When one of river gauges in west basin adjacent to Gulf Pines, Rabbit Road or San-Cap Rd. = or > 3.3' NGVD for 24 hour period; 2.8' NGVD in east basin

**2) Pre-Storm Conditions**

- a. Opened up to 36 hours in advance of storm (>3.2';2.7')

**3) Surface Water Duration Conditions**

- a. 3.2' NGVD west gauges for 90 consecutive days – reduce to 3.0' NGVD for remainder of calendar year

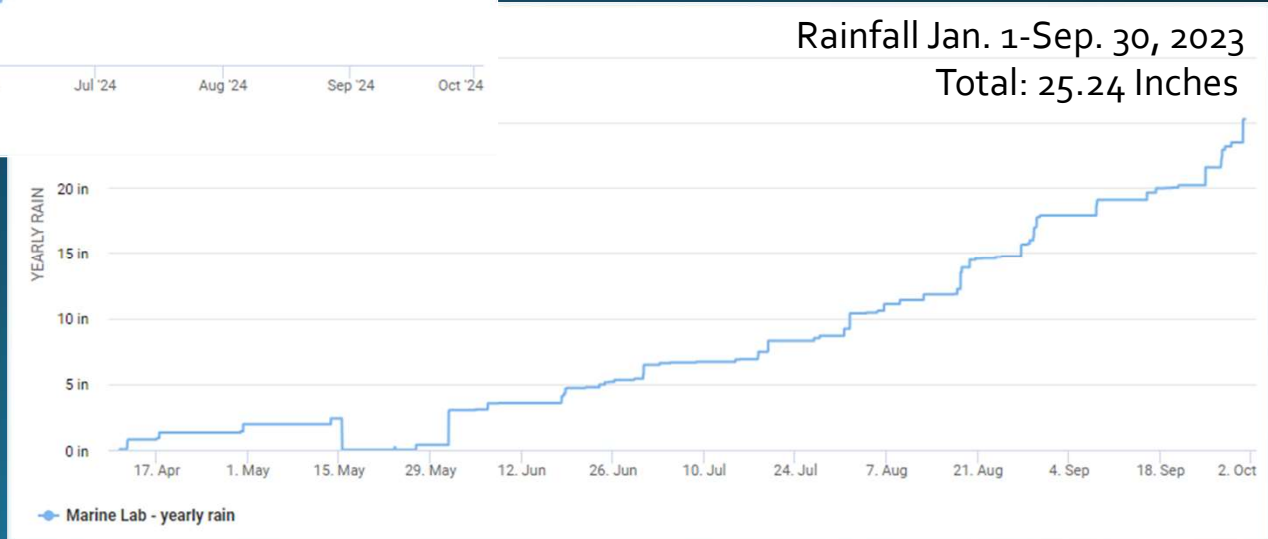
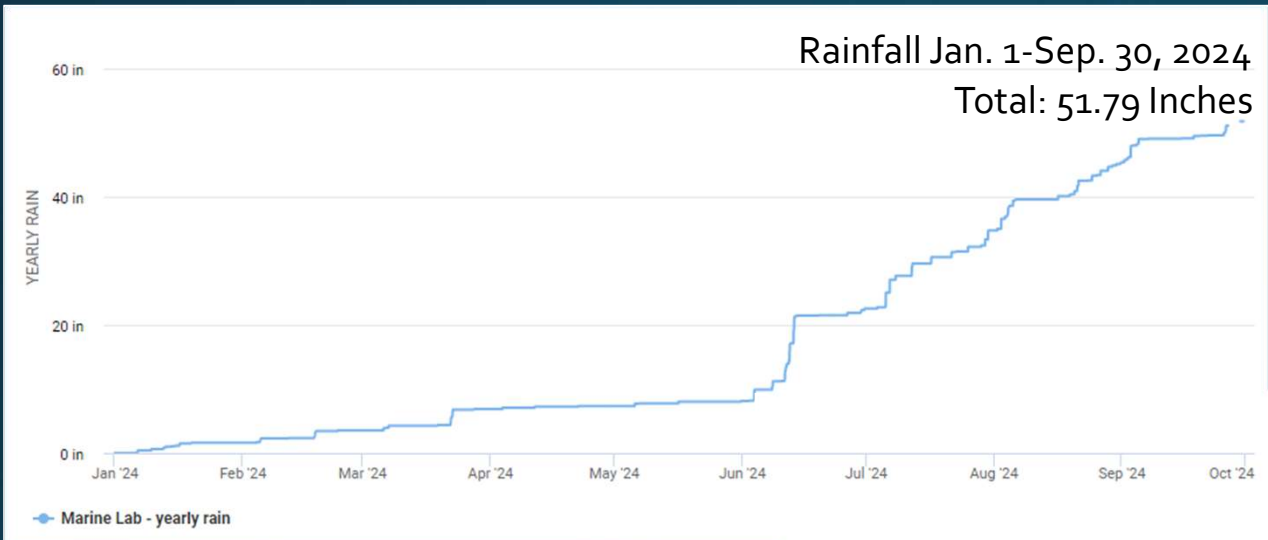
**4) Miscellaneous Conditions**

- a. When deemed necessary by City Manager for the prevention of immediate harm to persons, property, or the environment.



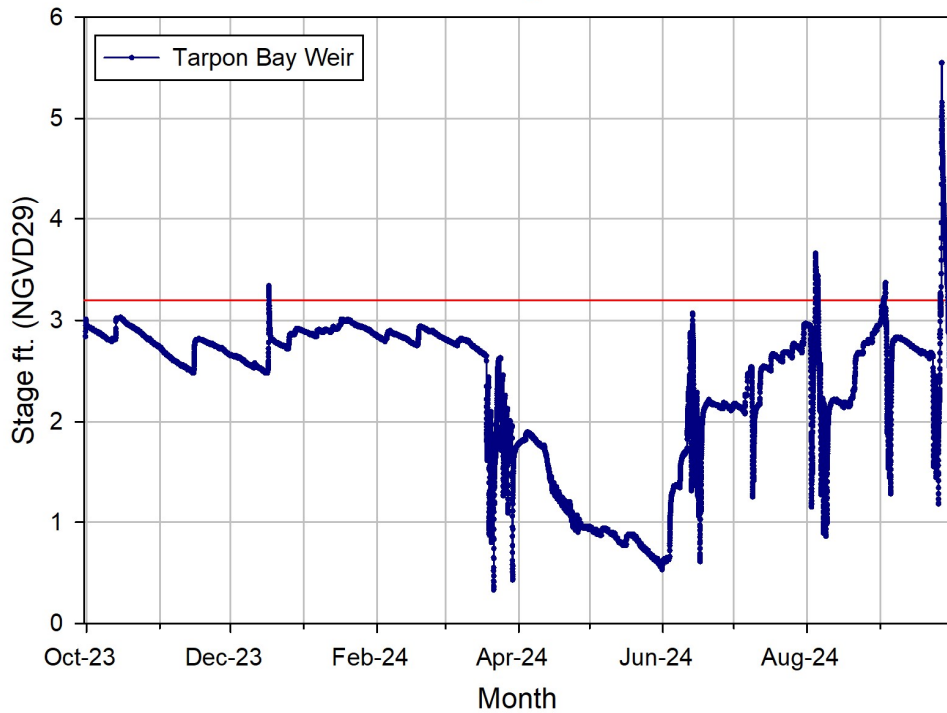
# Pre-Storm Environmental Conditions

## Rainfall

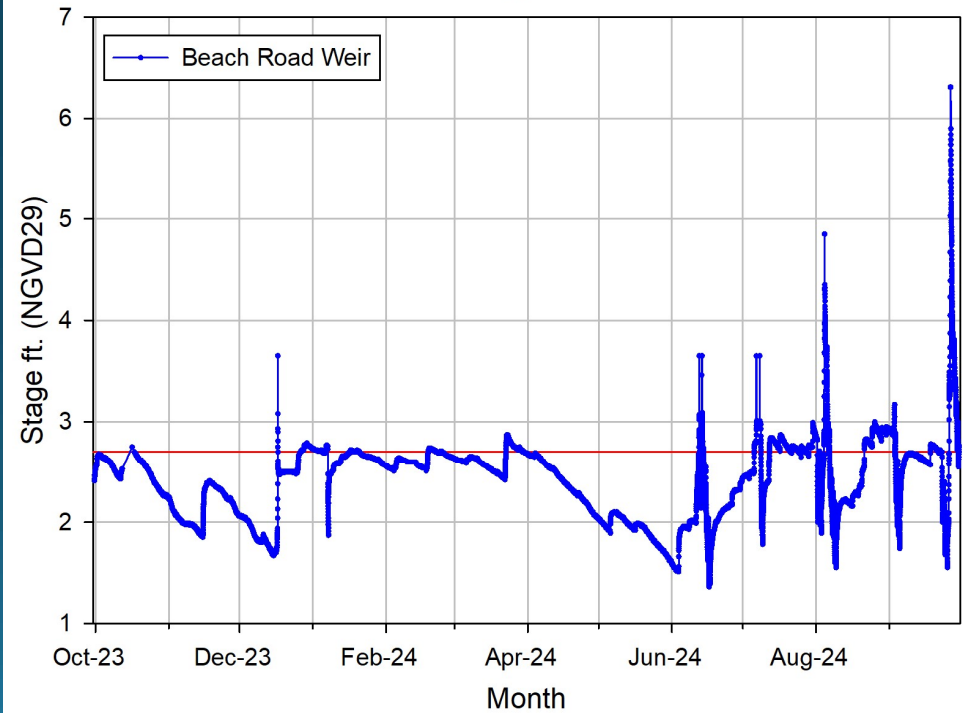


# Weir Operations – October 2023-September 2024

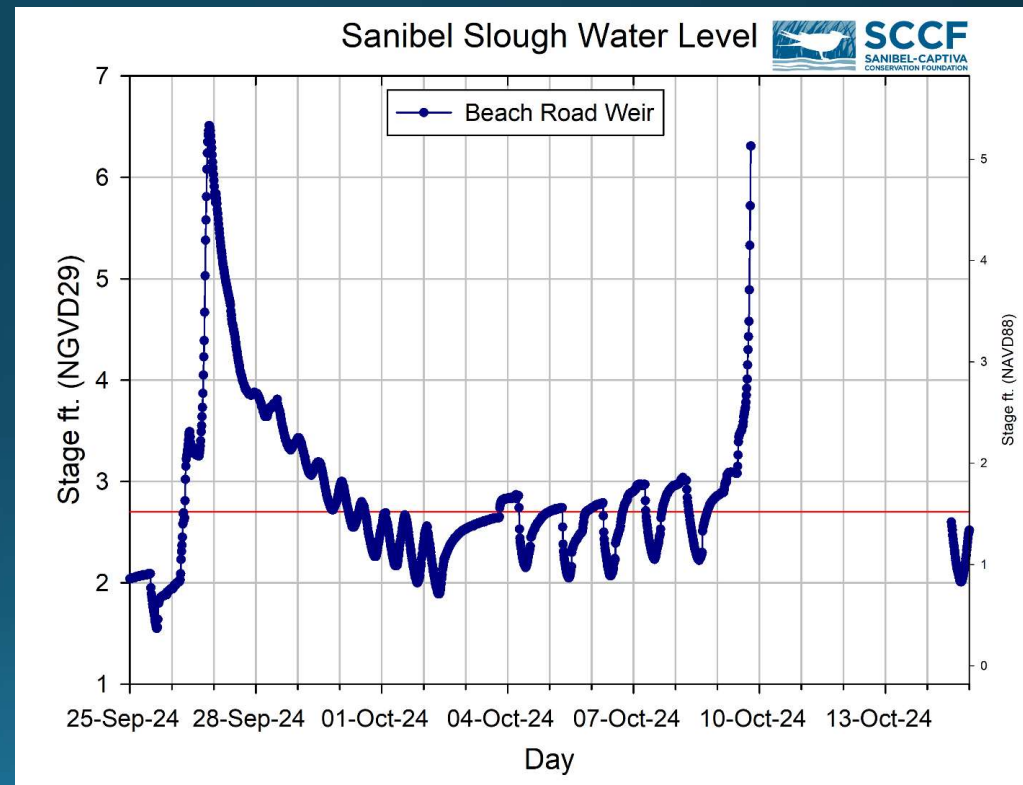
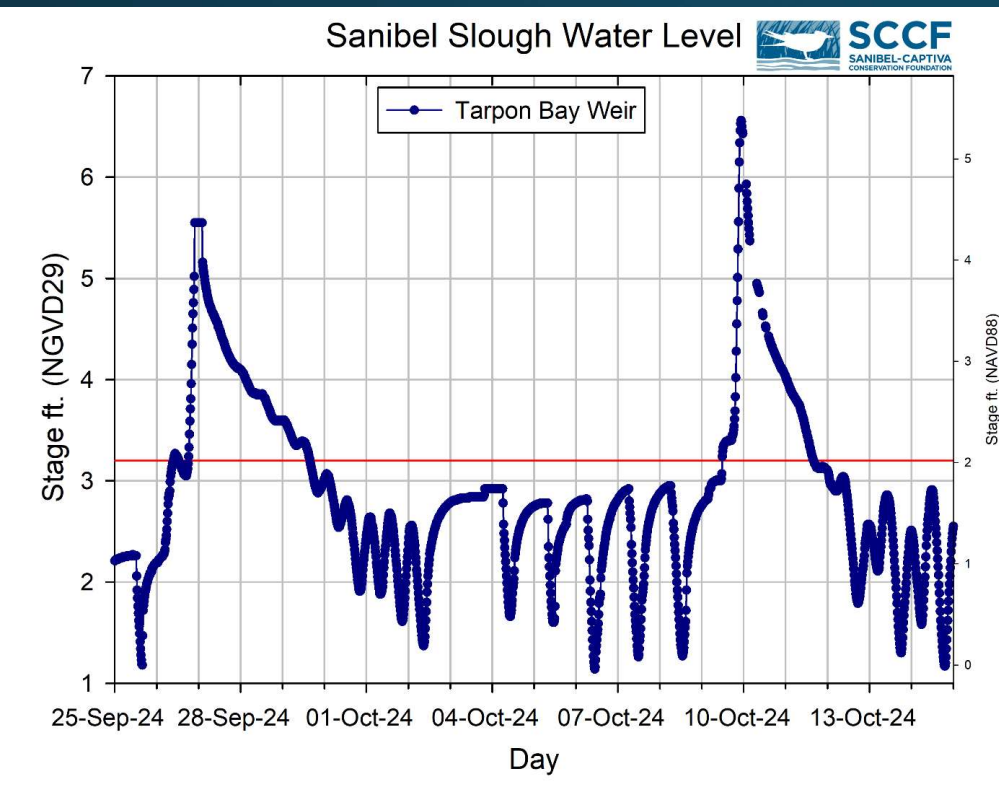
Sanibel Slough Water Level



Sanibel Slough Water Level

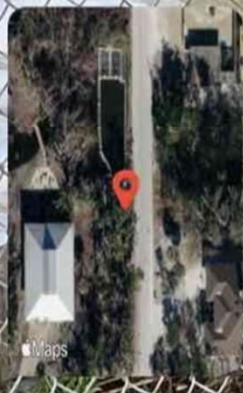


# Sanibel Slough Water Levels





GPS Map Camera



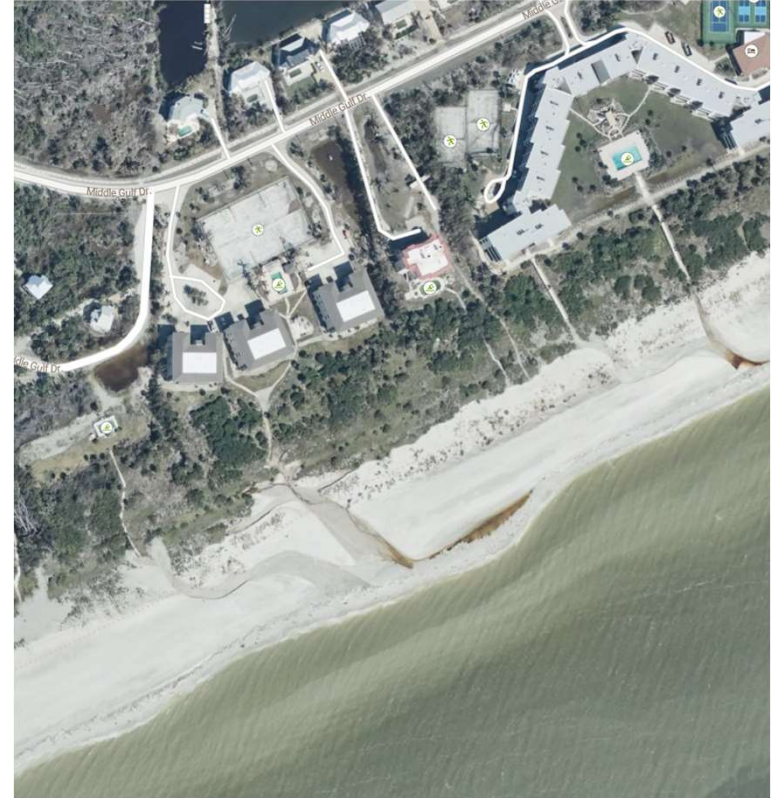
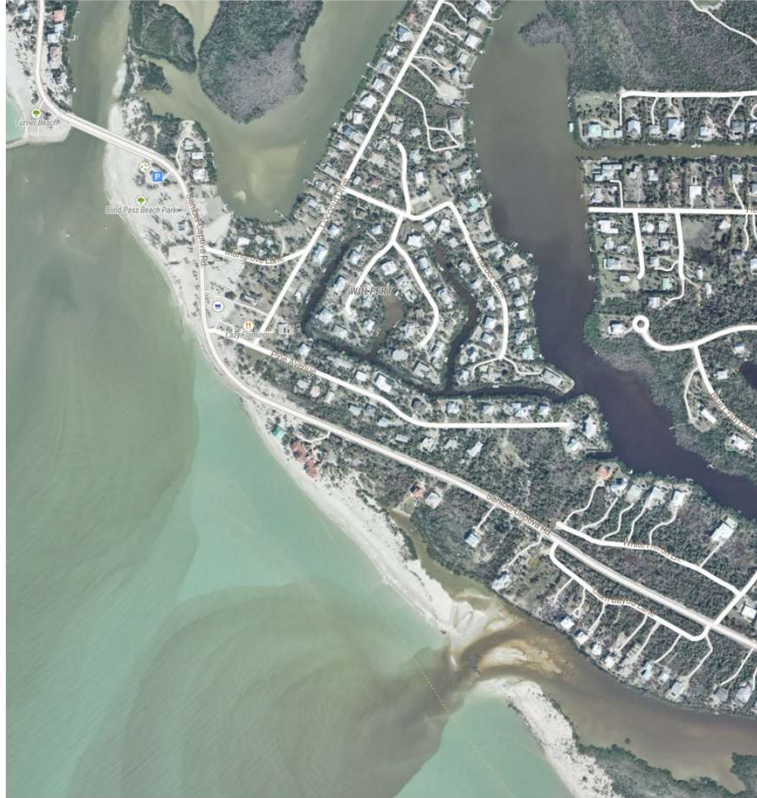
**Sanibel, FL, United States**  
Demere Ln, Sanibel, 33957, FL,  
United States  
Lat 26.442701, Long -82.039953  
10/10/2024 08:47 AM GMT-04:00  
Note : Captured by GPS Map Camera



# Stormwater Master Plan Update

- Topics of Focus
  - Assessment of Stormwater System Post Ian and Repair Design
  - Evaluation of Surface Water Master Plan and Weir Control Policy
  - Data Collection involving groundwater, Sanibel Slough, topographic information
  - Includes analysis of Sea Level rise and potential resiliency measures
- Prominent Steps
  - Partners Meetings (SCCF, USFWS-Ding Darling, Sanibel Fire, Mosquito Control)
  - Public Workshop ( Planned for Jan/Feb)
  - Final Presentation to City Council ( Late Spring/Early Summer)

# Beach







# Overwashed Sand

DEP Emergency Final Order 24-2534 (9/24/24)



## Activities Requiring Local Authorization

*Local governments are authorized to issue permits in lieu of Department permits to private and public property owners for the activities listed below:*

*(5) Return of sand to the beach dune system which has been deposited upland by the Storm. The recovered sand shall be free of debris and other foreign matter and shall not cover any Storm-generated debris or construction debris.*

# Overwashed Sand

## Staff Recommendation

- Accept DEP authorization to issue permits on behalf of DEP for return of overwash sand only
- Waive the fee for an Emergency Beach Shoreline Erosion Control Permit for return of overwash sand only



## Hurricane Debris Collection

- Estimated amount of debris
  - Originally – 35,00 cubic yards
  - Revised - 70,000 cubic yards
- Total Collected – 11/9/24
  - 35,884 cubic yards
  - Complete first pass by 11/15
- Second pass completed in some locations.
- Waterways debris assessment ongoing.

