

Sector 4 Update

Town Council Meeting

FEBRUARY 22, 2024



Hurricane Nicole made landfall on November 10, 2022.



<https://weather.com/storms/hurricane/news/2022-11-11-hurricane-nicole-recap-florida-southeast>

It was the first hurricane to strike the U.S. in November in almost 40 years.



<https://www.clickorlando.com/weather/2023/11/10/how-many-times-has-florida-been-hit-by-a-hurricane-in-november/>

Hurricane Nicole made landfall in Hutchinson Island.



Nicole approaching Florida on 8 November 2022 at 1PM EST
(Image from NASA/VIRRS)



Hurricane Nicole's track (Image from the North Carolina State
Climate Office)

https://climatecenter.fsu.edu/images/docs/Hurricane_Nicole_2022_Report.pdf

Due to the long duration wind and wave event, and the scope of the impacts, much of the worst damage happened over 100 miles from landfall.

Indian River Shores sustained substantial damage in the form of significant and widespread dune erosion.

Post-Hurricane Nicole

(November 2022)













After the storm passed many dune crossovers and structures along the dune line in the Town were severely damaged or completely destroyed.











The rush to repair the damage led to unpermitted work being conducted.





The was addressed in a team effort by the Public Works Department, Code Enforcement, Public Safety Department and the Building Department.



UNSAFE STRUCTURE


In Accordance with Florida Building Code Section 116

THIS STRUCTURE IS UNSAFE AND ITS USE OR OCCUPANCY
HAS BEEN PROHIBITED BY THE BUILDING OFFICIAL.

It may **NOT** be re-occupied or used until the **UNSAFE STRUCTURE**
designation is removed by **THE TOWN OF INDIAN RIVER SHORES**

01/19/24
652 Ocean Road

ADDRESS


FRED HELD
BUILDING OFFICIAL

January 19, 2024
Date

IT IS UNLAWFUL TO REMOVE THIS SIGN

Regular monitoring and documentation have taken place surrounding significant weather events likely to lead to erosion.

Critically Eroded Shoreline

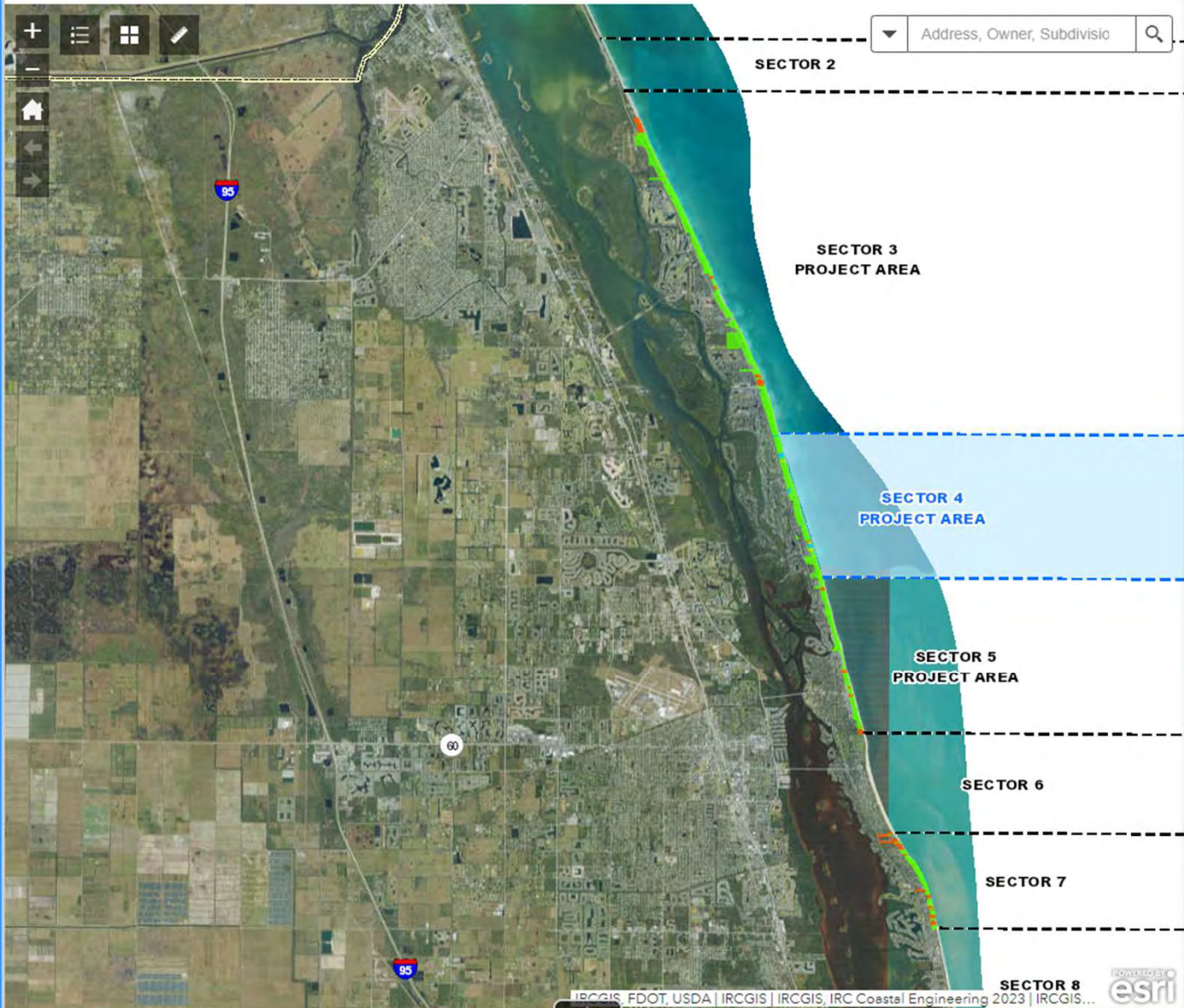
**The Florida Administrative Code, (F.A.C.), defines
“*Critically Eroded Shoreline*” as follows:**

A segment of the shoreline where natural processes or human activity have caused or contributed to erosion and recession of the beach or dune system to such a degree that upland development, recreational interests, wildlife habitat, or important cultural resources are threatened or lost.

F.A.C., defines “*Critically Eroded Shoreline*” - continued

Critically eroded shorelines may also include peripheral segments or gaps between identified critically eroded areas which, although they may be stable or slightly erosional now, their inclusion is necessary for continuity of management of the coastal system or for the design integrity of adjacent beach management projects.” Florida Administrative Code Rule 62B-36.002(5).

Sector 4 is the only beach sector in the county not designated as critically eroded.



FDEP is the agency which issues the critically eroded designation.

The Town asked the county to request FDEP review the critically eroded designation for sector 4 again given the scope of the damage after Hurricane Nicole.

The county submitted the request and provided technical data to FDEP.

The Town retained independent consultants for the purpose of submitting an independent request to FDEP to have Sector 4 designated Critically Eroded.

Importance of this designation is that it affords additional funding opportunities from both the State and Federal government for beach projects.

Long term goal would be an Engineered Beach

County Update



BOARD OF COUNTY COMMISSIONERS

1801 27th Street, Vero Beach, Florida 32960

Natural Resources Department Coastal Engineering Division

Sector 4 - Hurricanes Ian & Nicole Dune Restoration Project Update

Dear Coastal Stakeholder,

January 25, 2024

Due to delays encountered during the federal (Army Corps of Engineers) permit review process, in part caused by the presence of historical artifacts known to be present within the Sector 4 coastline, the County has not yet received the permits required to construct the Sector 4 Dune Restoration Project at this time. As such, the County is currently unable to solicit bids, and therefore will not be able to construct the Sector 4 Dune Restoration Project prior to the end of the current construction window (April 30, 2024). The County now anticipates the project to be constructed between November 1, 2024 through April 30, 2025.

The County cannot advertise for bid without permits being issued, as permit conditions drive the tasks identified in contracts. With regulations prohibiting beach construction activities from taking place annually between April 30 to October 31, during the bulk of sea turtle nesting season, we have reached the point at which it would not be possible to complete the Sector 4 Dune Restoration Project prior to April 30, even if permits were issued today.

The County is now planning for the next construction window, November 1, 2024 to April 30, 2025, for the Sector 4 Dune Restoration Project. The County's Coastal Engineering Division staff continue to focus efforts on the Project, including obtaining the remaining easements and continuing to work with both the state (Florida Department of Environmental Protection) and federal (Army Corps of Engineers) regulatory agencies on finalizing the issuance of permits. After permits are obtained, the County expects to solicit bids for the Sector 4 Dune Restoration Project over the summer, with award being made well in advance of the next start of the on-beach construction season.

Oceanfront property owners that choose to pursue their own private emergency measures (such as the placement of beach quality sand) in advance of the County's anticipated construction timeline would need to obtain an Emergency Field Permit issued from the Florida Department of Environmental Protection (FDEP). Property owners can request a permit either through the FDEP Coastal Construction Control Line field inspector by calling (850) 510-5619, or by contacting this office at (772) 226-1648 where emergency field permit issuance authorization remains in effect under the Governor's Executive Order 24-02. Please be assured that any measures individual property owner chooses to pursue will not impact your property's participation in the County's upcoming Sector 4 Dune Restoration project provided that the County's required beach easement agreement is recorded for that property.

The County would like to extend gratitude to the local neighborhood champions of the Sector 4 Dune Restoration Project for their efforts and communications that have gone into the Project thus far.

Thank you for your cooperation and patience as we work together to restore the Sector 4 dune.

Eric Charest
Interim Natural Resources Director

County is proceeding with a dune replacement project for sector 4.

Permitting is ongoing.

RECENT UPDATE

RE: ARCHEOLOGICAL ISSUE



FLORIDA DEPARTMENT OF STATE

RON DESANTIS
Governor

CORD BYRD
Secretary of State

Brandon J. Conroy, Project Manager
USACE Cocoa Permits Section
400 High Point Drive, Suite 600
Cocoa, Florida 32926

December 5, 2023

DHR Project File No.: 2023-6824, Received by DHR: November 6, 2023
Application No.: SAJ-2023-02044
Project: Sector 4 Dune Restoration
County: Indian River

Dear Mr. Conroy:

The Florida State Historic Preservation Officer reviewed the referenced project for possible effects on historic properties listed, or eligible for listing, on the *National Register of Historic Places*. The review was conducted in accordance with Section 106 of the *National Historic Preservation Act of 1966*, as amended, and its implementing regulations in *36 CFR Part 800: Protection of Historic Properties*.

A review of the Florida Master Site File indicates that the project area has not been surveyed for archaeological and historical properties. Additionally, archaeological sites IR25A, IR31, and IR32 are present within the project APE. Our office has never determined the eligibility of these sites. Since conditions in the area are favorable for the presence of these kinds of resources, we recommend that the project area be subjected to a professional cultural resources assessment survey. The resultant survey report should conform to the provisions of Chapter 1A-46, Florida Administrative Code, and should be sent to our office upon completion. The report will help us complete the review process and provide comments or recommendations to the permitting agency in a timely fashion.

The Division of Historical Resources cannot endorse specific archaeological or historic preservation consultants. However, the American Cultural Resources Association maintains a listing of professional consultants at www.acra-crm.org, and the Register of Professional Archaeologists maintains a membership directory at www.rpanet.org. The Division encourages checking references and recent work history.

If you have any questions, please contact Michael DuBose, Historic Preservationist, by email at Michael.DuBose@dos.myflorida.com or by telephone at 850.245.6342.

Sincerely,

A handwritten signature in blue ink, appearing to read "Alissa S. Lotane".

Alissa S. Lotane
Director, Division of Historical Resources
& State Historic Preservation Officer

Division of Historical Resources
R.A. Gray Building • 500 South Bronough Street • Tallahassee, Florida 32399
850.245.6300 • 850.245.6436 (Fax) • FLHeritage.com



ARCHEOLOGICAL ISSUE



FLORIDA DEPARTMENT of STATE

RON DESANTIS
Governor

CORD BYRD
Secretary of State

Robin E. Moore, MA/RPA
Archaeologist, Regulatory Division
USACE, Jacksonville District
41 North Jefferson Street, Suite 301
Pensacola, FL 32502

January 17, 2024

DHR Project File No.: 2023-6824, Additional Information Received by DHR: January 12, 2024
Application No.: SAJ-2023-02044
Project: Sector 4 Dune Restoration
County: Indian River

Dear Mr. Moore:

The Florida State Historic Preservation Officer reviewed the referenced project for possible effects on historic properties listed, or eligible for listing, on the *National Register of Historic Places*. The review was conducted in accordance with Section 106 of the *National Historic Preservation Act of 1966*, as amended, and its implementing regulations in *36 CFR Part 800: Protection of Historic Properties*. The project is subject to compliance with the United States Army Corps of Engineers (Corps).

The Corps has acknowledged that four known sites exist in or adjacent to the area: the Winter Beach Salvage Camp site (IR318), the John's Island Wreckage (IR31), the WW II Aircraft site (IR32), and the Nunn Site (IR25A). However, the Corps does not believe that a formal survey of the project footprint is needed to help protect these sites or to protect other, undocumented sites, as the probability of encountering a historic property from low to medium probability shovel testing along the beach is very low. The Corps proposes to include a special condition that a qualified archaeologist conduct an archaeological reconnaissance just prior to the start of the project. The proposed wording of the condition is included below. The Corps believes this reconnaissance is an appropriate level of survey work for the scale of the project which does not include any major ground excavation but rather includes placement of additional sand on the beach with heavy equipment. The Corps proposes that a reconnaissance prior to heavy equipment operation is sufficient to identify any shallow-deposited resources that may exist within the permit area that could potentially be exposed, and that a letter summarizing the assessment be submitted to the Corps and SHPO upon completion of the reconnaissance. Additionally, the Corps will require that an archaeologist be available/on-call for any unexpected discoveries during the course of the work. The Corps believes this strategy appropriately addresses historic resource concerns commensurate with the scope and scale of the project.

Our office concurs with USACE's determination that, with an archaeological reconnaissance of the project area, the proposed activities will have no adverse effect on historic properties.

Division of Historical Resources
R.A. Gray Building • 500 South Bronough Street • Tallahassee, Florida 32399
850.245.6300 • 850.245.6436 (Fax) • FLHeritage.com



Mr. Moore
DHR Project File No.: 2023-6824-B
January 17, 2024
Page 2

If you have any questions, please contact Michael DuBose, Historic Preservationist, by email at Michael.DuBose@dos.myflorida.com or by telephone at 850.245.6342.

Sincerely,

Alissa S. Lotane
Director, Division of Historical Resources
& State Historic Preservation Officer

Ideally, the project will be ready to proceed at the close of turtle nesting season in November 2024.

Post-December 2023 storm



Beachcomber beach south view
12/13/23



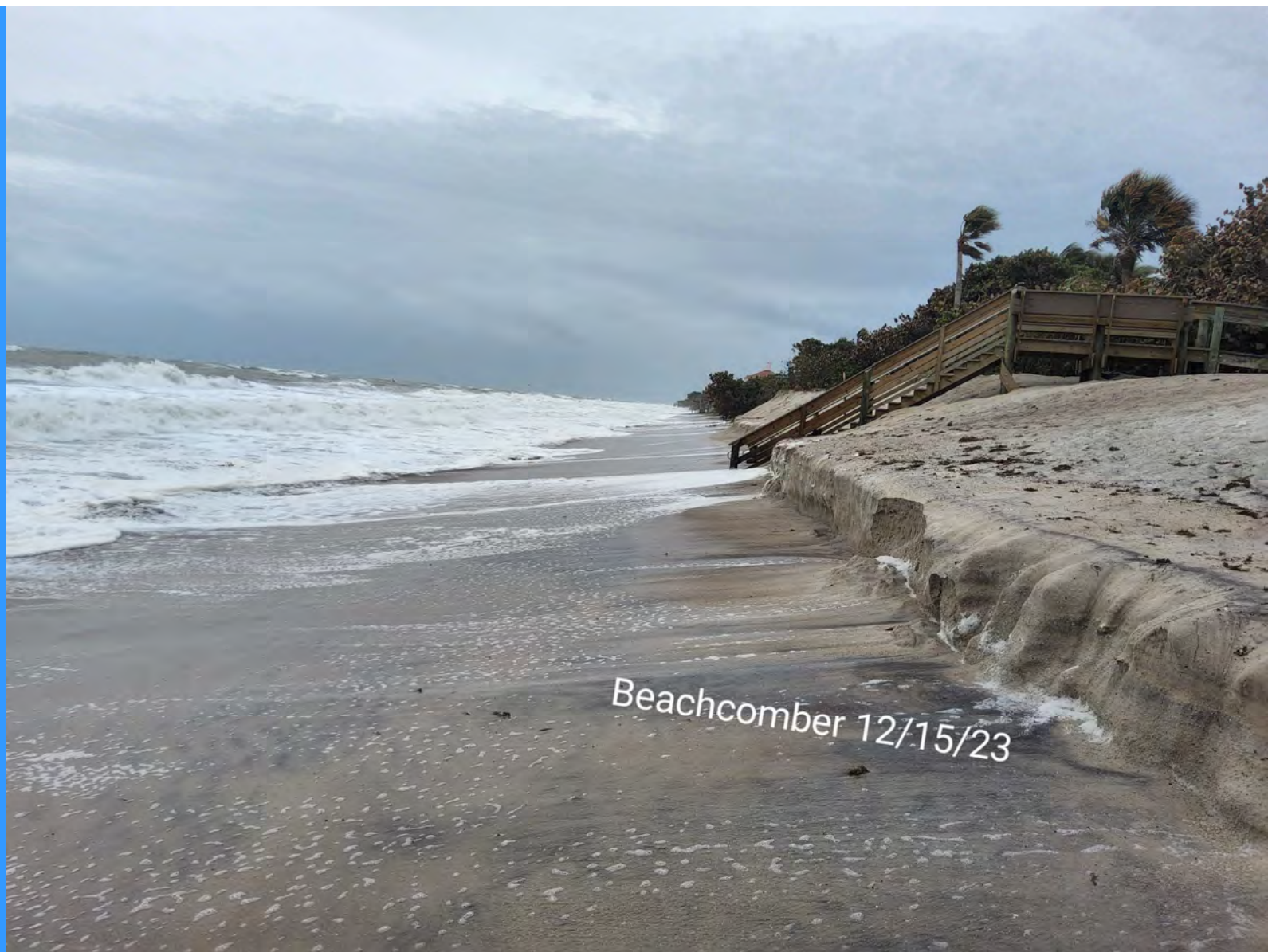
Beachcomber Beach access
12/13/23



Beachcomber beach access North
view 12/14/23



Beachcomber access north view
12/15/23



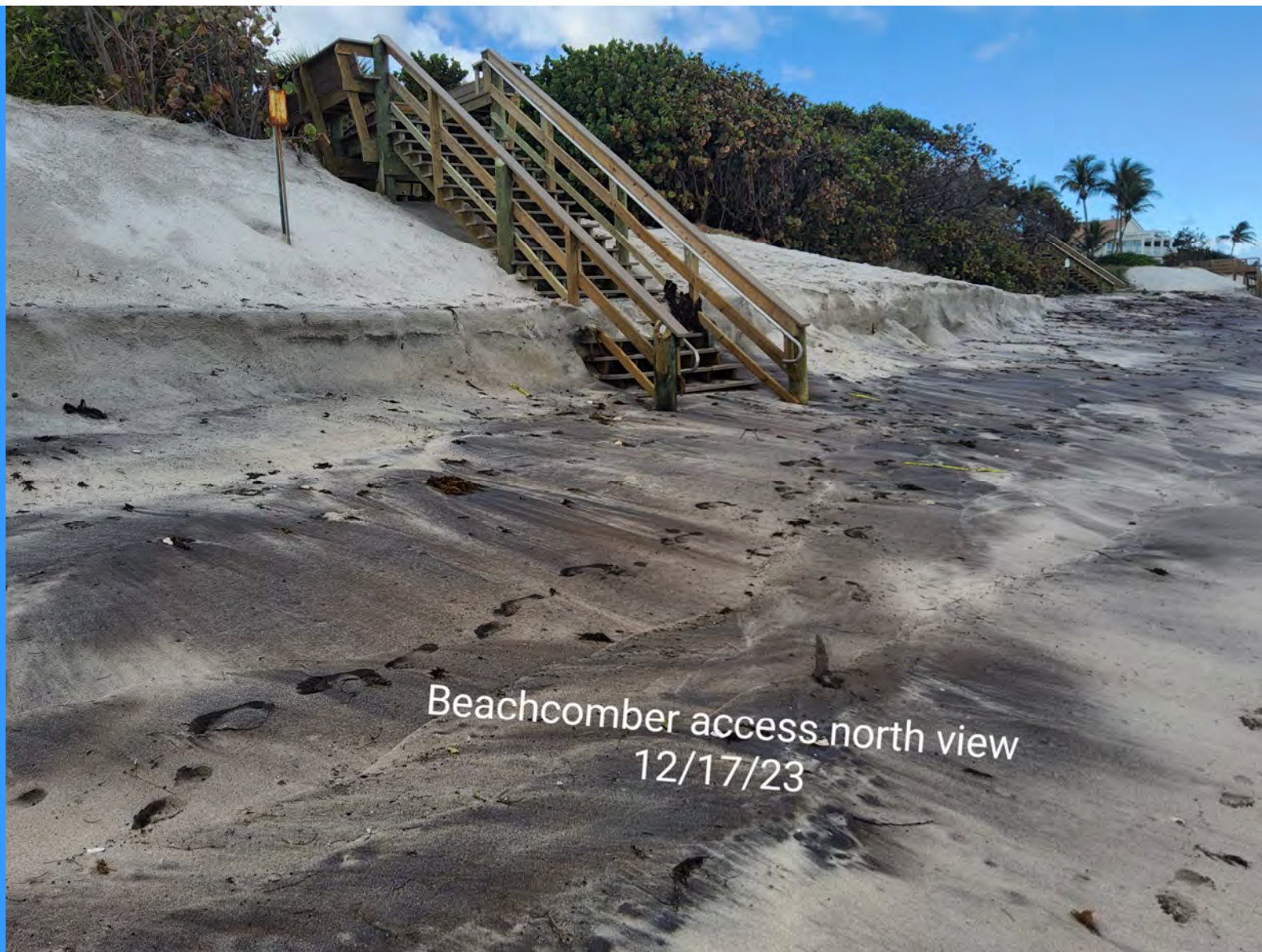
Beachcomber 12/15/23



Beachcomber access south view
12/15/23



Beachcomber beach 12/17/23



Beachcomber access north view
12/17/23

December 19, 2023





































Beachcomber access after sand replenishment 12/21/23



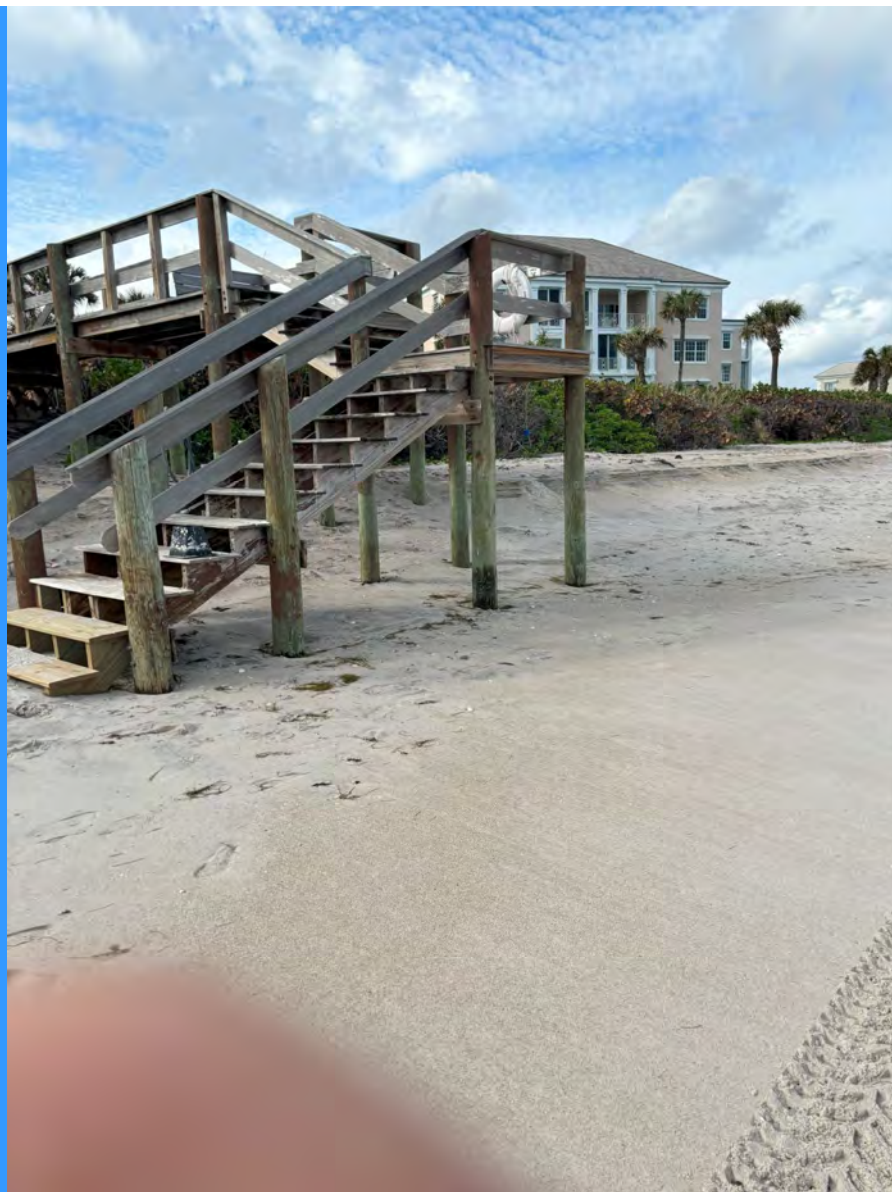
Beachcomber access after sand replenishment 12/21/23



Beachcomber access after sand replenishment 12/21/23



January 12, 2024































February 7, 2024









Exposed bladders and severe damage



February 8, 2024







Sand replenishment February 12, 2024.
Repair completed; dune crossover open.







