

PERIL OF FLOOD – DANIA BEACH



AGENDA

- Definitions
- What is the Peril of Flood?
- Flooding in Dania Beach
- Discussion
- Conclusion





DEFINITIONS

- **Coastal High Hazard Area (CHHA)** – the land that will be inundated by a category 1 hurricane
- **SLOSH** – A numerical model to help understand future sea levels, and storm surge
- **Coastal Construction Control Line (CCCL)** – a line that regulates structures/activities built on the shore that can cause physical issues
- **Storm Surge** – increase in wave activity as a result of storms or raised water
- **Sea Level Rise (SLR)** – the rising of the ocean as a result of several causes, and creates several effects



PERIL OF FLOOD DEFINITION

- Senate Bill 1094 “An Act relating to the peril of flood”
 - Florida Statute section 163.3178(2)(f)1
- Requires consideration of future flood risks
- This includes storm surge and sea level rise
- The law also must address “redevelopment principles, strategies and engineering solutions”



PERIL OF FLOOD ASPECTS

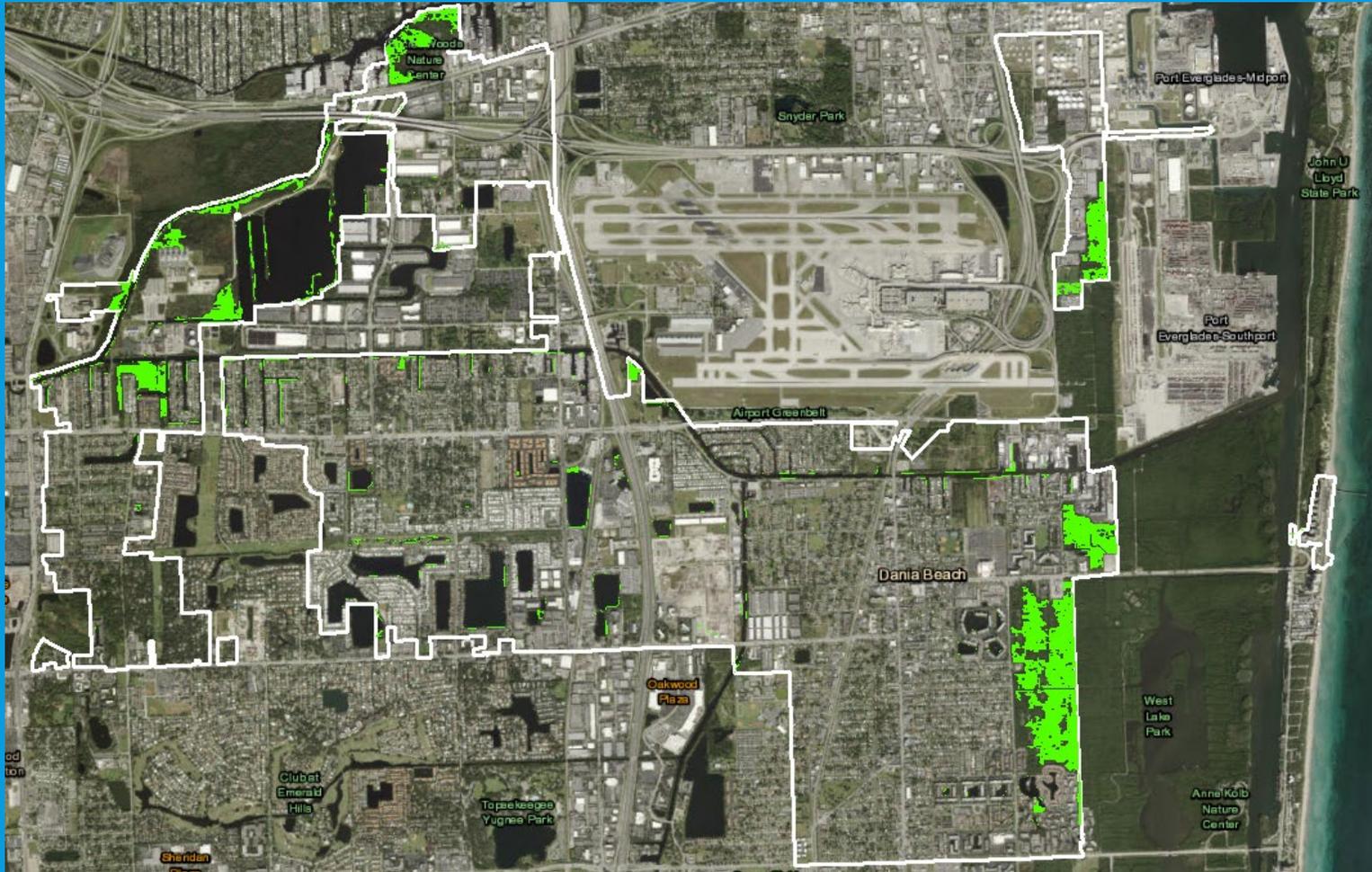
- The redevelopment component must:
 - Include principles, strategies, and solutions to reduce the flood risk in coastal areas
 - Encourage the use of best practices in development and redevelopment strategies that will result in the removal of coastal property from Flood Zones
 - Identify site development techniques and best practices to reduce losses
 - Be at least consistent with the flood requirements from the Florida Building Code
 - Require new construction in the CCCL to be consistent with State Statutes
 - Encourage participation in the NFIP Community Rating System



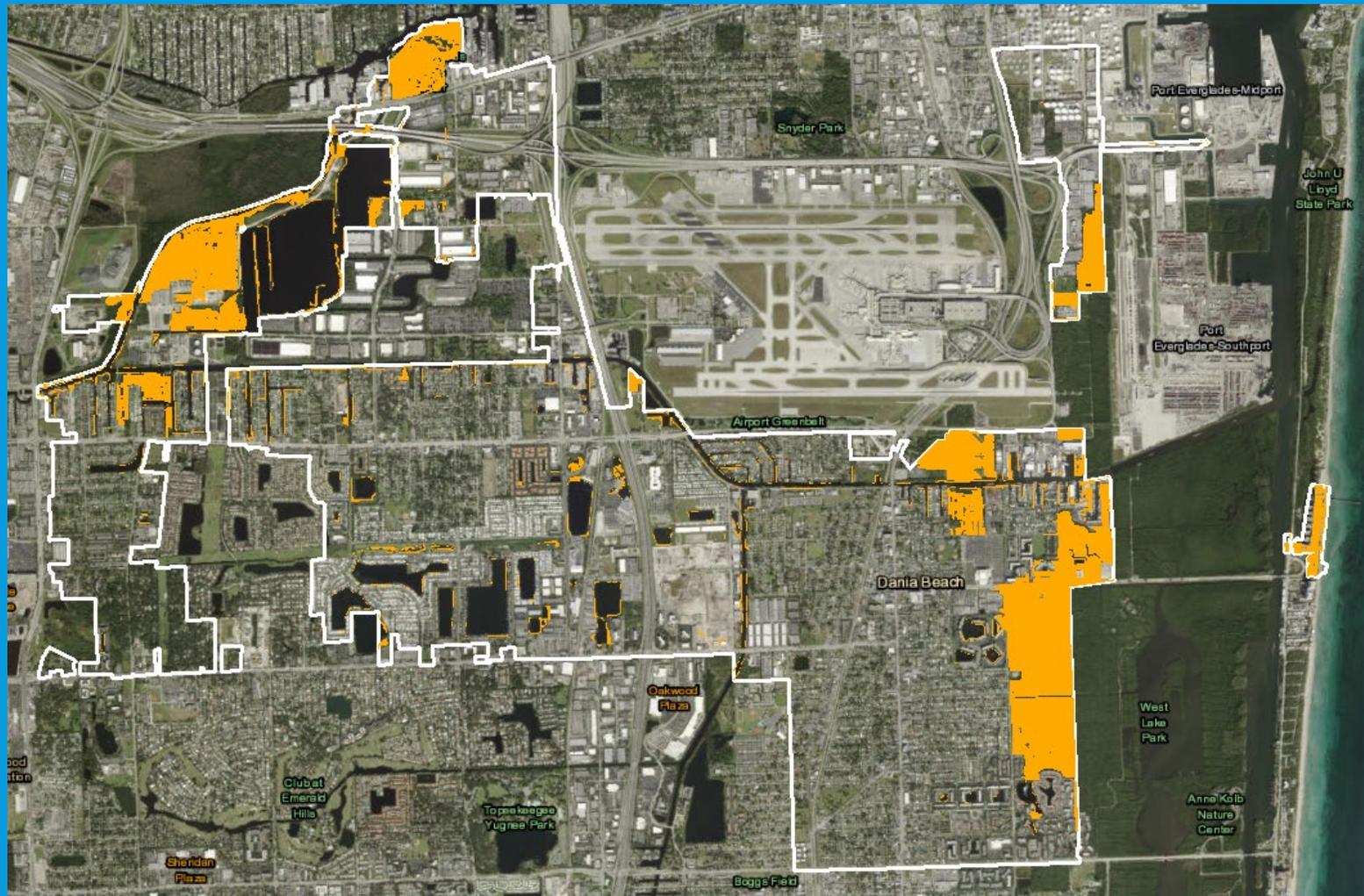
DANIA BEACH FLOOD MAPS

- Flood maps were created to illustrate the change in where the water may be in the future Scenarios include the:
 - current sea level with the CHHA,
 - 1 Foot of Sea Level Rise
 - 1 Foot of Sea Level Rise with the CHHA
 - 2 Feet of Sea Level Rise
 - 2 Feet of Sea Level Rise with the CHHA

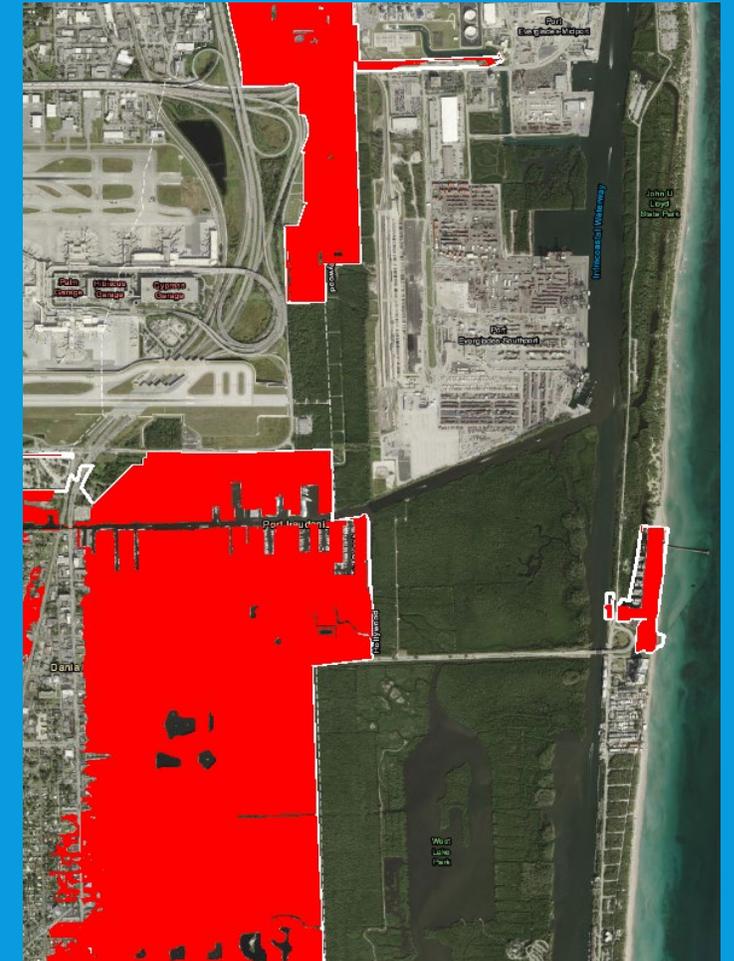
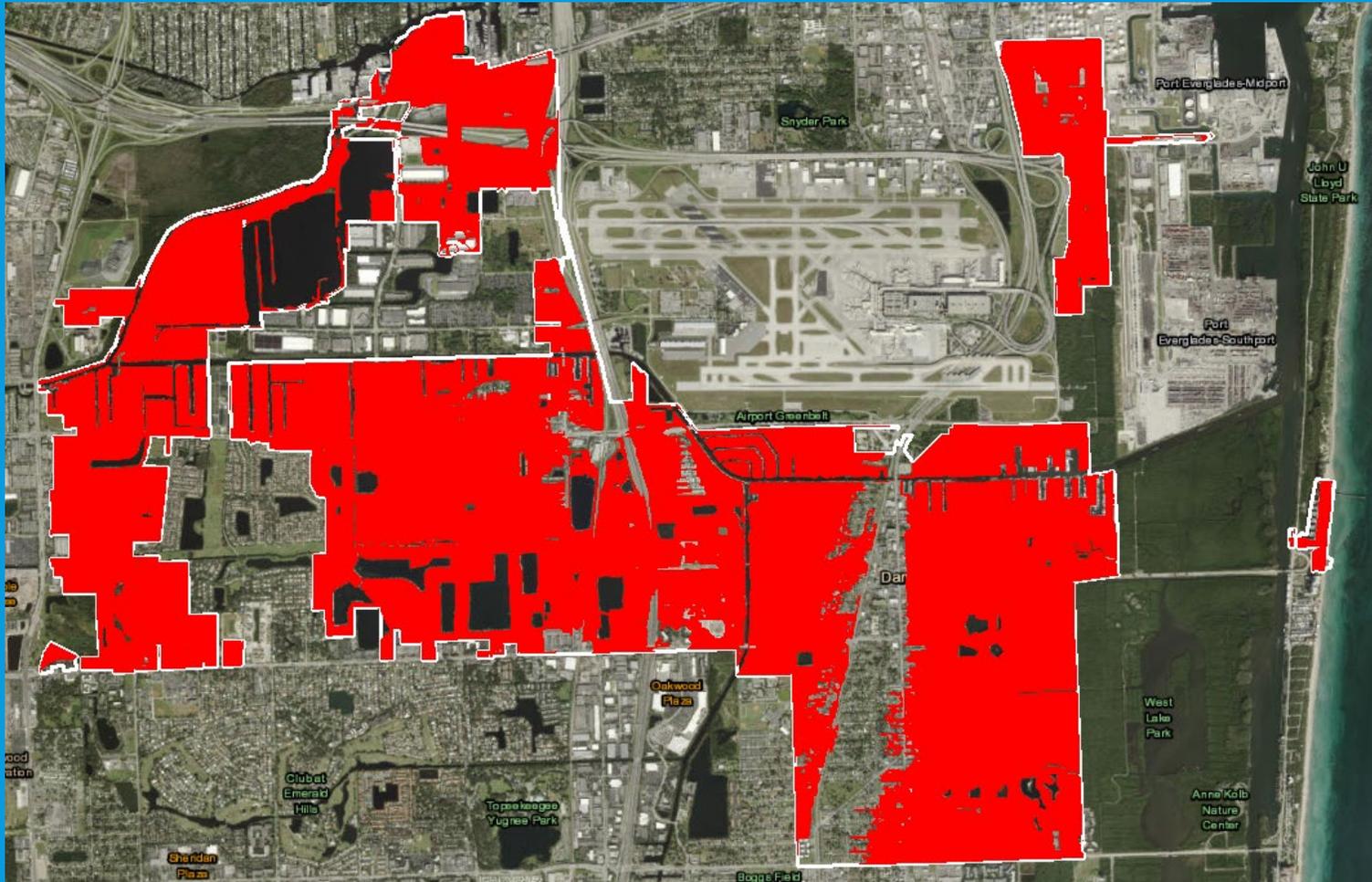
CURRENT SEA LEVEL WITH CHHA



ONE FOOT INCREASE WITH CHHA



TWO FOOT INCREASE WITH CHHA



WHERE THE CITY IS READY

- The City approaches the concerns of housing, identifying at vulnerable housing locations, and working to improve the housing offerings
- The City has identified locations of vulnerable populations
- The City has also taken stock of lands in potential flood zones
- Various land uses, including the structures on the lands, have been identified as they relate to the coastal and flooding
- Evacuation plans are used to influence development

WHAT THE CITY MAY NEED TO ADDRESS

- The City Comprehensive Plan needs to make note of the Peril of Flood statute
 - To be consistent with, or more stringent than...
- Identify the development plans for the coastal plans following sea level rise and storm events
- Continue to participation in the NFIP's Community Rating System
- Identify adaptation action areas
- Continue to monitor sensitive areas and populations

DISCUSSION

- What areas do you know of, that need to be approached or referenced in the Comprehensive Plan?
- Are there infrastructure concerns, or community concerns that should be brought forward for the Comprehensive Plan?
- What are the future goals for the City? What should remain the same?

IDENTIFICATION OF SENSITIVE AREAS, ASSETS, AND POPULATION

- What are areas, assets, and population within the Village are sensitive to sea level rise, and the flooding that can occur?
 - Areas can include Low lying areas, areas that are flooded by high tide events
 - Assets can include those which help ensure the safety, health, and welfare of the public
 - Populations can include those that are at risk, including elderly, disabled, and impoverished

WHERE ELSE DOES DANIA BEACH SUPPORT ADAPTATION?

- Are there areas within Dania Beach that are capable of adapting for the changes in their region for the flood waters?
- Are certain populations more willing to adapt than others, in Dania Beach?

CONCLUSION

- Over the course of the next few months, SFRPC will be working with Dania Beach staff to update the Comprehensive Plan
- The discussion points from this meeting will assist with the updates to the Comprehensive Plan to ensure compliance with the Florida Statutes Peril of Flood amendment



THANK YOU

Corey Aitken

(954) 924-3653

caitken@sfrpc.com

