



## City of Marco Island

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**To:** Mike McNees, City Manager  
**From:** Kelli DeFedericis, Floodplain/CRS Coordinator  
**Date:** December 8, 2022  
**Subject:** Community Rating System (CRS) section 510 Annual Progress Report

**Background:**

510 Floodplain Management Planning – Summary

The local Mitigation Strategy (LMS) plan was adopted April 6, 2020. The attached progress report is an annual report to confirm the City of Marco Island is an active member of the LMS planning committee.

**Discussion:**

Step 10 of CRS section 510

An evaluation report on progress towards plan implementation must be prepared at least once each year and submitted with the community's annual CRS recertification. The report must be submitted to the governing body and made available to the public.

The attached progress report addresses our participation in the LMS and gives a detailed account of the city's participation in the CRS program, which is a requirement for annual recertification. A recertification is necessary to maintain a positive status with the CRS program.

**Recommendations:**

Staff recommends submitting the "Activity 510, Progress Report" to the City Council as part of the City Manager's report.

Activity 510 Floodplain Management Plan, Annual Progress Report – 2022  
City of Marco Island, Florida 34145  
NFIP Community: 120426

**I. Background**

- a. April 6, 2020, the City of Marco Island City Council approved and adopted by resolution #20-10 a revision to the Collier County multi-jurisdictional Local Mitigation Strategy (LMS); required to be adopted every 5-years. In doing so, the City of Marco Island receives the following direct benefits: of the LMS.
  - i. Eligible for the following mitigation grant programs administered through the:
    - 1. Federal Emergency Management Agency
    - 2. Hazard Mitigation Grant Program (HMGP)
    - 3. Building Resilient Infrastructure and Communities (BRIC)
    - 4. Severe Repetitive Loss (SRL)
    - 5. Flood Mitigation Assistance (FMA)
  - ii. In order to maintain CRS credit for activity 510 Floodplain Management Plan, the City must prepare an annual progress report on the various activities the community is performing. This report shall serve as the City of Marco Island 2022 annual progress report.

**II. Annual Report Preparation, Distribution & Availability** – Prepared by Kelli DeFedericis, City of Marco Island's Floodplain Coordinator

- a. Distributed too:
  - i. City of Marco Island Council
  - ii. City of Marco Island website
  - iii. CRS specialist coordinator's office

**III. Local Mitigation Strategy Working Group (LMS)**

- a. Collier County's Local Mitigation Strategy Working Group (LMSWG) is a component of Collier County's Citizen Corps. The LMSWG meetings are open to the public for either full-time membership or casual participation.
  - i. The purpose of the group is to examine the hazards that confront people and property of Collier County and explore means to reduce the vulnerability to each hazard. Essentially, the group prioritizes a project "wish-list" that achieves the goals contained within the county's Local Mitigation Strategy (formerly the CC Hazard Mitigation Plan). Then, when monies become available, typically through a federal grant opportunity resulting from a disaster, the LMSWG submits a prioritized listing that goes with each grant application attesting to the fact that the project supports the community's hazard mitigation priorities.
  - ii. State approval May 7, 2020
  - iii. Marco Island resolution 20-10
- b. Federally declared disaster(s)
  - i. Hurricane Wilma 2005 – Disaster number 1609
  - ii. Tropical Storm Debby 2012 – Disaster number 4068
  - iii. Florida Severe Storms and Flooding 2013 – Disaster 4138
  - iv. Florida Severe Storms, Tornadoes, straight – line Winds and Flooding 2014 – Disaster 4177
  - v. Florida Hurricane Matthew 2016 – Disaster 4283
  - vi. Hurricane IRMA 2016 – Disaster 4337
  - vii. Hurricane Michael 2018 – Disaster 4399
  - viii. Florida Covid-19 Pandemic – Disaster 4486
  - ix. Hurricane Ian 2022 – Disaster 4673

c. Marco Island State and Federally Funded projects

State and federally funded projects								
disaster #	State Project #	Approved by City Resolution	FEMA Project #	Project Name	Project Total	Federal/state Share	City Share	
4337	228	19-40	112-R	Source Water Facility generator pump.	\$660,000.00	\$495,000.00	\$165,000.00	
<i>Project reduced to generator pump replacement – grant contact executed</i>								
4337	644	19-41	144-R	MBR Building, Wind Retrofit	\$2,876,000.00	\$2,157,000.00	\$719,000.00	
<i>Grant budget increase requested - under FEMA review</i>								
4337	284	19-40	245-R	Lift Station Generators	\$3,320,000.00	\$2,490,000.00	\$830,000.00	
<i>All generators have been delivered – in the reimbursement / close-out phase.</i>								
4337	232	18-28	380-R	City Hall Wind /Flood Retrofit (v2)	\$1,409,300.00	\$1,056,975.00	\$352,325.00	
<i>State Approved – Grant budget increase requested</i>								
4337	645	19-48	266-A	Fire Station 50 - Code + Construction Phase II	\$1,700,868.00	\$1,275,651.00	\$425,217.00	
<i>Under Construction</i>								
4399	TBD	18-28		City / County Water System Interconnect	\$200,000.00	\$150,000.00	\$50,000.00	
<i>State Mitigation Office currently conducting environmental and engineering review of the project.</i>								
4486	232	18-28	073-R	Annex Building Wind /Flood Retrofit	\$440,375	\$396,337.50	\$44,0375.50	

City Hall Annex Wind, Flood & Generator project which has been awarded by FEMA and the State is currently developing the grant contract.							
Watershed Planning Initiative Phase II	FL Dept. of Emergency Mgmt (FDEM)	N/A	Watershed Master Plan Coordinate with FAU & DEM	\$120,000.00	\$90,000.00	\$30,000.00 (in-kind)	
<p><i>Application submitted on 06/09/2022</i></p> <p><i>In-kind match grant - The Watershed Planning Initiative is funded through a \$26.6 million grant under the Hazard Mitigation Grant Program (HMGP), as approved by FDEM and the Federal Emergency Management Agency (FEMA), with the purpose of creating standardized, cost-effective, and easily replicable Watershed Master Plans (WMP) throughout the state of Florida. According to NFIP (2019), there are 1.77 million flood insurance policies in Florida, and a 5% discount in communities with large concentrations of flood insurance policy holders would result in cumulative yearly savings far exceeding the cost of the grant award.</i></p>							
State DEP Resilient Grant	State Department Of Environmental Protection (DEP)	N/A	Florida Peril Of Floods State statute 163.3178 Coastal Management	\$78,000.00	\$78,000.00	\$0.00	
<p><i>Application submitted on 06/21/2022</i></p> <p><i>Identify site development techniques and best practices that may reduce losses due to flooding. Develop a vulnerability assessment in coordination with FAU and the watershed master plan.</i></p> <p><i>*In 2015, the Florida Legislature passed Senate Bill 1094, titled "Peril of Flood". The new law, which became effective July 1, 2015, specifies new requirements for the coastal management element of a local government's comprehensive plan related to coastal flooding and the related impacts of sea level rise.</i></p>							
			<b>Total</b>	<b>\$ 10,804,543</b>	<b>\$8,188,963</b>	<b>\$3,011,917</b>	

#### IV. Drainage System and Storm Water Maintenance

##### a. Capital Improvement Projects

- i. Fruit Farm Creet Mangrove Restoration, a project to improve the habitat, ecology, and water quality in Rookery Bay National Estuarine Research. Installing culvers below San Marco Road by providing ecological and hydrological enhancement.

1. Contract 20057 between Florida Fish and Wildlife Conservation Commission (FWC), state of Florida Department of Environmental Protection (DEP) and City of Marco Island as a political subdivision of the state of Florida.

2. Cost

- a. \$2,300,000.00

3. Funding
  - a. Federal Award – NA19NMF0220003 to FWC for Hurricane IRMA Fishery Disaster Funding
  - b. FWC received a grant from the National Oceanic and Atmospheric Administration (NOAA) allowing FWC to contract with Marco Island.
- ii. S. Barfield Dr. – Drainage Improvement Project (design stages)
  1. Hydraulic model
    - a. Designed to 10-year 1 hour storm
    - b. Upgrade majority of the storm drainpipes in this area
- iii. San Marco - Tide Leveling (design stages)
  1. Expand pipe for tide leveling
  2. Flushing system
- iv. Durnford Way – Stormwater
  1. Install new drainage to prevent localized flooding
- b. Enforce the “No Storm Drain Dumping Regulations”
  - i. Plaques have been added to all main drainage ditches – “no dumping drains to waterway.”
- c. Implement water quality control and storm water regulations
  - i. Municipal Separate Storm Sewer Systems (MS4)
  - ii. Adoption of local Ordinance 20-04 – Stormwater Management

#### **V. Public Emergency Services**

- a. StormReady Community
  - i. Renewed 2020
    1. Will renew in 2023
- b. Complete a multi-jurisdictional flood/hurricane exercise
- c. Marco Island Critical Facilities
  - i. Contacts – upon request
  - ii. Marco Island Fire Department ISO rating class 3

#### **VI. Flood Insurance Rate Maps (FIRMs)**

- a. Current FIRM 05-16-2012
  - i. Letter of Map Change
    1. 30 Letter of Map Revisions (LOMR)
    2. 13 Letter of Map Amendments (LOMA)
- b. Preliminary FIRM Issued 12/31/2019
  - i. City of Marco Island submitted an appeal to FEMA 06/07/2021
    1. FEMA Request for Additional Information 03/28/2022
    2. City of Marco Island / JR Evans responded 04/27/2022
    3. FEMA replied with comments 08/17/2022
      - a. City has 30-days to respond
    4. The city of Marco Island has submitted a Scientific Panel Review request to FEMA, in response to their comment resolution letter.

- a. AECOM and FEMA have offered to provide our appeal to a third party within FEMA headquarters to review AECOM's comment resolution letter in response to our initial appeal.
  - i. There is an engineering disagreement regarding: "Wind speed and how far inland will it affect the wave action and at what speed."

## **VII. Floodplain ordinance**

- i. Last updated October 5, 2020
  - 1. Minor updates 2023

## **VIII. Flood Insurance**

- a. 5677 Active structure policies
  - i. Total structure count 8,862
  - ii. Total structure count in SFHA 8,437
- b. 14,038 Active premiums associated with a main structure policy (i.e condo, renters, or commercial contents)
- c. Rep-loss structure count (structures which have had two policies paid out of a \$1,000 or more in a 10-yr span)
  - i. One high rise condo
  - ii. One commercial structure

## **II. Completed CIP projects 2022**

- a. Stormwater inlet improvements on the corner of San Marco and Heathwood
  - 1. Hazard Mitigation Grant Program (HMPG) – cost \$1,136,000.00
    - a. Disaster 4337 / state project 231 / Marco Resolution 18-28 / FEMA project 389-R
      - i. Grant contract executed
      - ii. Construction Contractor selected & contract executed
      - iii. Construction is scheduled to begin early 2021.
    - b. Remove and replace dilapidated piping
    - c. Add Outfalls
    - d. Add drainage connections
  - 2. Yellowbird Drainage
    - a. Drainage upsizing
    - b. Relocate drainage due to road widening
    - c. Add outfalls
    - d. Add drainage connects