

December 11, 2018 – presented for approval.

R2018-42: A RESOLUTION TO ADOPT THE FLOODPLAIN MANAGEMENT AND HAZARD MITIGATION PLAN 2018 ANNUAL REPORT.

Applicant/Purpose: City of Myrtle Beach/ to request Council to approve & adopt the 2018 Floodplain Management/Hazard Mitigation Plan Annual Report.

Brief:

- Federal Disaster Management Act of 2000 requires communities to create plan to qualify for disaster funding.
- Complete Floodplain Management Plan adopted in December 2015.
- Plan requires annual report review & update.

Issues:

- Plan required for Community Rating System, which saves flood insurance policyholders in Myrtle Beach > \$1,000,000 annually.
- Committee recommends following actions for 2019:
 - Research flood claims for repetitive loss properties.
 - Produce a map showing flooding during recent hurricane flood events.
 - Complete Flood Warning & Response Annex Plan.
 - Hold after action meeting on Hurricane Florence w/ department heads.
 - Present to City Council a report on the deployment of city employees to assist w/ Hurricane Michael in Florida.

Public Notification: Normal meeting notification.

Alternatives: None considered. Plan is required by CRS & to participate in Hazard Mitigation Grant Program (HMGP) funds. Future federal disaster funding is contingent on plan approval.

Financial Impact: City's participation in CRS saved residents estimated \$1 million annually in flood insurance premiums.

Manager's Recommendation: I recommend approval.

Attachment(s): Proposed resolution, annual report.

RESOLUTION R2018-42

CITY OF MYRTLE BEACH
COUNTY OF HORRY
STATE OF SOUTH CAROLINA

A RESOLUTION TO ADOPT THE
FLOODPLAIN MANAGEMENT AND
HAZARD MITIGATION PLAN ANNUAL
REPORT FOR THE CITY OF MYRTLE
BEACH

WHEREAS, the City of Myrtle Beach is a participant in the Community Rating System of the National Flood Insurance Program managed by the Federal Emergency Management Agency; and

WHEREAS, because of the city's participation in the CRS, owners in flood plains in the city have enjoyed a 25% reduction in flood insurance premiums; and

WHEREAS, because of the city's participation in the CRS, owners outside of flood plains in the city have enjoyed a 10% reduction in optional flood insurance premiums; and

WHEREAS, the adopted Floodplain Management and Hazard Mitigation Plan required an annual evaluation of the plan to determine progress in implementation, and revision of the plan where deemed necessary.

NOW, THEREFORE, IT IS RESOLVED that the attached Floodplain Management and Hazard Mitigation Plan Annual Report is hereby approved and adopted.

SIGNED AND SEALED this 11th day of December 2018.

BRENDA BETHUNE, MAYOR

ATTEST:

JENNIFER STANFORD, CITY CLERK

In accordance with the Floodplain and Hazard Mitigation Plan, the technical review committee met on October 30, 2018 to evaluate the progress attained in the action plan implementation. The technical review committee includes members from the public and representatives of municipal departments responsible for implementing and carrying out the plan. This report will be sent to the city manager for review upon completion. The report will be released to the media by the public information officer and posted online. Members of the public may also view copies of this report by visiting the Construction Services Department in the City Services building. The committee’s findings are as follows:

Each proposed mitigation action has been identified as an effective measure (policy or project) to reduce hazard risk for the City of Myrtle Beach. Each action is listed in the MAP in conjunction with background information such as hazard(s) addressed, plan goal(s), and relative priority. Other information provided in the MAP includes potential funding sources to implement the action should funding be required (not all proposed actions are contingent upon funding). Most importantly, implementation mechanisms are provided for each action, including the designation of a lead agency or department responsible for carrying the action out as well as a timeframe for its completion. These implementation mechanisms ensure that the City of Myrtle Beach Flood Mitigation and Hazard Mitigation Plan remains a functional document that can be monitored for progress over time. The proposed actions are not listed in priority order, though each has been assigned a priority level of “high,” “moderate,” or “low” as described below.

The Mitigation Action Plan is organized by mitigation strategy category (Prevention, Property Protection, Natural Resource Protection, Structural Projects, Emergency Services, or Public Education and Awareness). The following are the key elements described in the Mitigation Action Plan:

- ◆ Hazard(s) Addressed—Hazard which the action addresses.
- ◆ Goal(s) Addressed—Plan goal which the action addresses.
- ◆ Relative Priority—High, moderate, or low priority as assigned by the jurisdiction.
- ◆ Lead Agency/Department—Department responsible for undertaking the action.
- ◆ Potential Funding Sources—Local, State, or Federal sources of funds are noted here, where applicable.
- ◆ Implementation Schedule—Date by which the action the action should be completed. More information is provided when possible.
- ◆ Implementation Status—Indication of completion, progress, deferment, or no change since the previous complete plan update (2015). If the action is new, that will be noted here.
- ◆ Annual Report Status

Mitigation Category		Number of Mitigation Actions
Prevention		14
Property Protection		2
Natural Resource Protection		4
Structural Projects		2
Emergency Services		9
Public Education and Awareness		9
Future Actions		

City of Myrtle Beach Mitigation Actions

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
Prevention									
P-1	Submit a request to FEMA for mapping of the Market Common area under their Limited Map Maintenance Program, to map the storm surge potential.	Flood, Storm Surge	1, 6	Moderate	Floodplain Coordinator, Public Works Department	FEMA, Local funds	2015	Deferred-This area is now known as the Market Common District - There has been no notable progress in the effort to have the former Air Force base mapped. FEMA has started its Map Modernization program for Horry County, and at the kickoff meeting the former Air Force Base was identified as a priority for study.	The preliminary flood maps have been mapped and are still in the appeals process.
P-2	Revise the zoning ordinance to ensure no net loss of fill within the SFHA.	Flood	1	Low	City Council, Planning Commission, Zoning Administrator, Chief Building Official	Operating budget	2016	Deferred-The Construction Services Department is working to revise the zoning ordinance for the SFHA.	Still in consideration.

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
P-3	Create a plan to increase Community Rating System (CRS) points.	Flood	1, 7	Moderate	Floodplain Coordinator, FMHMPC	Local funds	Completed	Completed-The Floodplain Manager implemented a plan to increase the City's potential CRS points. The strategies were to obtain credit for dune protection, to upgrade the web site, amend the public notice brochure, reduce the number of repetitive loss properties, implement a non-conversion agreement for VE properties, provide additional mapping information, implement a repetitive loss notification program, and train inspection staff on flood zone issues. The City's CRS program was reviewed in 2009 and the points increased to 2758. The City's CRS program was reviewed in 2012 and the points increased to 2,849.	Continuously looking for additional ways to gain points. Working on Stormwater Master Plan, increasing number of CFM's, identification of evacuation routes on signs, etc. Additional strategy involves working towards the development of an integrated watershed-based planning document that will satisfy CRS watershed master plan requirements.
P-4	Perform routine maintenance on the City's drainage structures.	Flood	3	High	Public Works Department	Local funds	Completed	Completed-The City's ditches and canal systems are on a constant cutting and cleaning schedule. There is also a schedule for pipe cleaning and catch basin repair. A NPDES MS4-based stormwater management plan was adopted in Fiscal 14-15 for the city.	Ongoing

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
P-5	Implement a non-conversion agreement as a condition of granting permits in Flood Zones.	Flood	1, 5	High	Construction Services, Floodplain Coordinator	Local funds	Completed	Completed-The Construction Services Department has implemented a policy that requires property owners to sign and agree not to convert areas below the base flood elevation in violation of the floodplain regulations.	Completed
P-6	Work to increase overall staff expertise in floodplain management through training and certification of additional staff.	Flood	1, 5	High	City Manager	Local funds	Completed	Completed-The City has six certified floodplain managers among its employees. The majority of them attended the SC Association for Hazard Mitigation conference in North Myrtle Beach this past year, securing continuing education credits necessary to maintain certification. The City added 2 additional staff members as certified floodplain managers in 2013.	Ongoing Spoke with FEMA representatives about needing substantial damage assessment training.
P-7	Create and maintain a map of all repetitive loss properties.	Hurricane and Tropical Storm, Flood, Storm Surge	1, 5	High	Floodplain Coordinator	Local funds	Completed	Completed-This action was added during the 2004 annual evaluation process. Since that time, a map was created showing all repetitive loss properties in the City limits. It was submitted under the CRS program for additional credit towards the repetitive loss program. The map was redone when new data came out.	Ongoing New data came out in 2018 and the maps will be updated again.

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P-8	Create a training program on how to fill out an elevation certificate.	Flood	5	Moderate	Floodplain Coordinator	Local funds	Completed	Completed-This action was added during the 2004 annual evaluation process. Since that time, the Floodplain Coordinator worked with the SC Department of Natural Resources to hold an Elevation Certificate workshop. The City held a training program with SCDNR in 2013.	The City will contact SCDNR again to try and schedule training.
P-9	Review the Floodplain Ordinance and other elements of the City's Floodplain Management program to ensure continued compliance with the NFIP.	Flood	1, 5	High	City Council, Zoning Administrator	Local funds	2016	Deferred-The Planning Department and Zoning Administrator have begun work [in 2006] on reviewing Section 909 of the Zoning Ordinance. Changes to the Floodplain Ordinance were approved by the City Council in January 2008.	Ongoing The City will need to update the ordinance again once the new FEMA flood maps are released.
P-10	Coordinate with Planning and Public Works to draft a stormwater plan.	Flood	3	Moderate	Planning Department, Public Works Department	Local Funds	Completed	Completed-This project was not achieved in 2008; the committee moved it to the 2009 action list, and will re-evaluate the resources needed to begin the process. A NPDES MS4-based stormwater management plan was adopted in Fiscal 14-15 for the city. The plan however does not meet NFIP guidelines.	Completed
P-11	Create a new filing system for elevation certificates in the Floodplain Coordinator's office.	Flood	5	Low	Floodplain Coordinator	Local funds	Completed	Completed-Elevation certificates are now scanned into an electronic folder.	Completed

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P-12	Post-construction inspections of private stormwater systems.	Flood	3, 5	Moderate	Public Works Department	Local funds	2017	Deferred-In accordance with NPDES regulations, Public Works staff inspect private stormwater systems for any conditions that may create or exacerbate localized flooding. Through the existing contract, contingent upon annual renewal by the City of Myrtle Beach, with the Coastal Waccamaw Stormwater Education Consortium (CWSEC) Storm Drain Marking Program will assist the City in achieving this goal.	Ongoing
P-13	Encourage more developers to bury their utility lines to prevent damage from wind and flooding.	High Wind, Ice Storm, Northeast r, Flood, Tornado	1	Moderate	Planning Department, Public Works Department, Construction Services	Local funds	Completed	Completed-All new development over the past few years has installed underground utilities.	Ongoing
P-14	Become a Firewise Community.	Wildfire	5, 7	Moderate	Fire Marshal	Local funds	2017	The City is currently working on its package to become a Firewise community.	Still considering.

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Property Protection									
PP-1	Acquire easements or property to correct localized drainage problems.	Flood	3	Moderate	Public Works Department, City Council	Local funds	Completed	Completed - The Public Works Department has acquired all easements necessary for ongoing drainage relief projects for the boardwalk/downtown area. Easements have also been acquired for the Pine Lakes drainage projects. Two large road projects brought drainage easements along Oak Forest Lane (2008) and 38 th Ave N. A 2016/2017 drainage project has been completed at the triangle pond located at Oak Street/Collins Street, which provides easements for an overflow pipeline leading to Withers Swash.	Ongoing – The Public Works Department continually seeks to acquire easements and/or property associated with drainage improvement projects within our community. Outsourcing to professional services to acquire additional easements.
PP-2	Removal of temporary pool enclosures from hotels in the floodplain.	Flood, Storm Surge, Tidal Waves / Tsunami	1, 5	High	Floodplain Coordinator, Zoning Administrator	Local funds	Completed	Completed-FEMA overturned this ruling and now allows pool enclosures. Property owners must apply annually for a permit.	Completed

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
Natural Resource Protection									
NRP-1	Continue beach renourishment on a 10-year cycle for the next 50 years, based on the availability of funding for the federal government's share of the cost.	Coastal Erosion, Sea Level Rise, Storm Surge	2	High	City Council, City Manager, Public Works Director	Local funds, Grants	2019	Deferred-Every ten years, the City participates in beach renourishment efforts. The renourishment activity was most recently completed in April 2008. The amount of sand used ranged from 15 cubic yards/foot (in residential areas, where the beach remained healthy) to 40 cubic yards/foot in the area of the 14 th Ave N pier (and other areas where beach traffic is heaviest). The City contracts with Coastal Science & Engineering to report on the result of renourishment; this is due each year in the fall. This report will indicate the updated beach profile. The City continues to notify the Army Corps of Engineers after any significant storm event that causes abnormal erosion along the beachfront.	Ongoing Planning has begun with the USACOE to implement another renourishment to be completed in 2018.
NRP-2	Conduct study to investigate the cost of constructing a second line of dunes using sand fencing.	Beach Erosion, Coastal Flooding, Storm Surge	1, 2	Moderate	Public Works Director	Beach protection grants	2019	Deferred-Secondary dunes were created along many areas of the beach during the past renourishment.	Still considering More secondary dunes will be studied as part of the proposed 2019 project.

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
NRP-3	Acquire additional swash and wetland areas.	Flood	2	Moderate	Public Works Department, City Council	Local funds, grants	2017	Deferred-No additional swash or jurisdictional wetland areas were gained in the last year. The City has gained almost 100 acres of wetlands on the former Air Force base via conveyance from the developer; these acres are planned for passive recreation trails and open space. An estuary plan is being created for the Withers Swash area that will lead to acquisition of more open space, an extension of Withers Swash park (across 3 rd Ave S), and a new neighborhood plan that helps the neighborhood relate to the Swash as a preservation concern.	Still considering. The City has submitted a Hazard Mitigation Grant Program (HMGP) application for a drainage project involving Cane Patch Swash that would involve the potential acquisition of additional wetland areas.
NRP-4	Coordinate with the Planning Department to include a representative for floodplain issues that may arise during the rewriting of the comprehensive plan.	Flood	1, 5	High	Planning Department, Floodplain Coordinator	Local funds	Completed	The Floodplain Coordinator and other CFM-certified staff have participated in the Comprehensive Plan revision process, which should be complete by the end of 2011.	Ongoing

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
Structural Projects									
SP-1	Find funding for three currently developed stormwater projects: the 4 th Avenue North Plan; the 24 th Avenue North Plan; and the Downtown Redevelopment Corporation (DRC) Plan.	Flood	3	Moderate	Public Works Department	TBD	2015	Deferred-The City has expended \$2.6 million – including SRF funding – to create a new oceanfront collector system between 1 st Ave and 8 th Ave N. Twin 84" pipes are being constructed going offshore at 4 th Ave. North with a completion date of fall, 2015 at a cost of \$13 Million. A total of six pipes will be removed when the ocean outfall is completed. The stormwater project is being done in conjunction with the new boardwalk recreation project. Additionally, a new drainage system was completed in 2008 to end localized flooding on Haskell Circle. (sentence deleted) Funds from the Pre-Disaster Mitigation (PDM) program were used to accomplish this project.	Ongoing 4 th Ave. completed. Seeking funding for the 24 th Ave project.
SP-2	A study for a regional storm water system for Market Commons has been completed and work on the regional stormwater ponds is progressing.	Flood	3	Moderate	Base Redevelopment Authority, Public Works Department	Local funds, Staff time	Completed	A contract for a sixth lake in the Market Common district was awarded; and the lake was completed in 2007. Bent Oak phases II, II & IV neighborhood project was completed in 2007 to relieve localized flooding in the area. A large regional ditch (the "Mama Ditch") was annexed in 2008 and has been added to the City's stormwater ditch maintenance schedule.	Completed

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
SP-3	Find funding for the development of an integrated watershed master plan.	Flood	1,3, 7	Moderate	Public Works Department	TBD			Development of an integrated watershed-based planning document that will satisfy NPDES MS4, SCDHEC 319, and CRS watershed master plan requirements, provide city-wide stormwater modeling, and yield a series of proposed watershed-based stormwater implementation projects.
Emergency Services									
ES-1	Improvement of Emergency Warning System.	All Hazards	1	Moderate	Emergency Management	TBD	Completed	Completed-We have an agreement with HCMD to provide emergency warnings for visitors and residents using their code red system.	Completed City purchased a hyper-reach system in 2018.

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ES-2	Evacuation Route Improvement.	Hurricane and Tropical Storm	1	Moderate	Emergency Management, SCDOT	Local funds; Federal grants	2016-2020	<p>The SC DOT has installed three overhead message signs on US 17, which can be used to provide information to the public during evacuations and other emergencies. The electronic signs are located on US 17 at SC 544, at Mr. Joe White Avenue North (formerly 10th Avenue North) and at SC 22. The City of Myrtle Beach can request that messages be displayed on these signs as needed during hurricane evacuations or other emergency circumstances. In addition, the SC DOT has installed 16 traffic-monitoring cameras throughout the Grand Strand, on US 17 and US 501.</p> <p>The City has submitted a Hazard Mitigation Grant Program (HMGP) application for a drainage project involving Hwy 501/Balsam Street that will increase storage capacity and alleviate flooding conditions on Hwy 501, an evacuation route within our community.</p> <p>The Hwy 501 bridge widening project is under consideration for inclusion within the 2040 Metropolitan Transportation Plan (MTP) for the Grand Strand Area Transportation Study (GSATS) area. Improvements are made on an annual basis.</p>	Ongoing

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
ES-3	Maintain the City's Emergency Management Plan. (Each hazard identified in this plan is included in the Emergency Management Plan.)	All Hazards	1, 5	High	Emergency Management	Local funds	2016	The City's Emergency Management Plan has been incorporated into the Floodplain Management and Hazard Mitigation Plan by reference. The Emergency plan is updated each year.. A copy of the plan is available for viewing on the City's web site.	Ongoing
ES-4	Maintain "Storm-Ready Community" Status.	Hailstorm, Lightning, High Wind, Hurricane, Tornado	1, 5	High	Emergency Management	Local funds	2018	Deferred-The City received its storm-ready approval letter for 2015 but will be able to renew their status in 2018 with all of their eligibility requirements.	Ongoing
ES-5	Apply lessons learned from recent disasters: <ul style="list-style-type: none"> Apply for Tsunami-Ready Status Use the lessons learned from New Orleans' experiences to form evacuation plans Plan for a Flood Awareness Week 	All	1, 5, 7	Moderate	Emergency Management, Floodplain Coordinator	Local funds	2017	Deferred-The City of Myrtle Beach became a Tsunami-Ready Community in 2006. Prior to the 2006 plan evaluation, the Assistant City Manager and Risk Manager collaborated on a plan to assist nursing homes and other critical facilities in evacuating prior to a hurricane. However, the Floodplain Coordinator is still evaluating the options for a Flood Awareness Week for Myrtle Beach.	Ongoing
ES-6	Devise a flood drill to test the flood warning system.	Flood	1	High	Risk Manager, Emergency Manager, Floodplain Coordinator	Local funds	2016	Deferred-We are working with HCEMD to test the flood warning system using the Code Red System.	Still considering -The new radio system should allow for testing.
ES-7	Train Urban Search and Rescue Team on building collapse rescue.	All	1, 5	Moderate	City Fire Department	Homeland Security Grants	2017	New-Currently, there are 40 trained rescue team members with \$300,000 of equipment.	Ongoing

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
ES-8	Train Water Rescue Team for the floodplain area and other water rescues.	Flood	1, 5	Moderate	City Fire Department	Local funds; Homeland Security Grants	2016	New-Currently, there are several trained personnel with strategically placed equipment for a water rescue.	Ongoing
ES-9	Utilize installed cameras throughout the City to monitor emergency situations to include flooding and surge on the beach access points.	All	1, 5	Moderate	Emergency Management/Public Safety	Local Funds	2017	New-Currently new cameras have been installed around the City and they will be utilized for multiple issues.	Ongoing
Public Education and Awareness									
PEA-1	Create a business task group to establish guidelines for the mitigation of hazard related economic losses to the community.	All	4, 7	Moderate	Planning Director, Planning Commission, City Manager, City Council	Local funds; private sector	2016	Deferred-The City's Tourism Committee with sponsorships from the Chamber of Commerce, Santee Cooper, and Horry County Emergency Mgmt. have sponsored an annual Area Business Disaster Recovery Symposium for the past two years. Approximately 150 businesses have participated in the symposium each year. The symposium has focused on business continuity planning thus far.	Ongoing
PEA-2	Create a presence on the City's Web site for flood information.	Flood	1, 4	High	Floodplain Coordinator, Public Information Officer	Local funds	2016	This action was added during the 2004 annual evaluation process. Since that time, the Floodplain Coordinator and Public Information Officer collaborated in publishing the City's floodplain pamphlet on the Internet via a link on the front page of the City's web page, www.cityofmyrtlebeach.com/flood.html . This was expanded to include flood insurance information as well.	Ongoing The City's website is reviewed monthly to check for any broken links and confirmed that the content is still current and pertinent.

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PEA-3	Provide training for elected and appointed officials and board members about the benefits of low-impact stormwater design.	Flood	1, 7	Moderate	Planning Department, Public Works Department	Local funds	2017	The City has plans to provide additional training to officials in the coming year. The Coastal Waccamaw Stormwater Education Consortium (CWSEC) will provide support with the workshops, seminars and good housekeeping training videos.	Ongoing
PEA-4	Develop a public information / safety campaign regarding lightning strikes.	Lightning	1, 4	Moderate	Fire Marshal, Risk Manager, Public Information Officer	Local funds	Completed	Completed – Developed a PSA to better inform our citizens and visitors about lightning safety for our local TV channel.	Ongoing
PEA-5	Place floodplain brochures at City Hall and recreation centers to educate the public on floodplain regulations and preparing for emergencies.	Flood	1, 4, 5	High	Construction Services/Floodplain Manager	Local funds	New		Completed
PEA-6	Attend community watch meetings and educate the citizens on stormwater and floodplain issues.	Flood	1, 3, 4	High	Construction Services/Floodplain Manager	Local Funds	2017	New-The City would like to maintain these efforts on an annual basis.	Ongoing
PEA-7	Create public service announcements for hurricane or emergency preparedness.	All	1, 4	High	PIO	Local Funds	2017	New- The City would like to maintain these efforts on an annual basis. Public Information Office communicating emergency preparedness and storm recovery PSAs during hurricane season.	Ongoing

Action #	Description	Hazard(s) Addressed	Goal Addressed	Relative Priority	Lead Agency/ Department	Potential Funding Sources	Implementation Schedule	Implementation Status (2015)	Annual Report Status update
PEA-8	Initiate a social media campaign for the City of Myrtle Beach.	All	1, 4	High	PIO	Local Funds	2016	New-The City began a new campaign to communicate information through other formats including Facebook. Currently, the City has an Instagram account but plans to utilize it more frequently. The Police Department has a twitter account and uses it regularly.	Ongoing -Talking with Hospitality Association on placing more material in hotels, restaurants, etc.
PEA-9	Plan and hold a disaster awareness day for the City's citizens.	All	1, 4	High	PIO	Local Funds	2017	New-The City feels that there is an interest in citizens learning more. It may be combined with other efforts.	Still Considering
Previously Completed Mitigation Actions									
	Include the Departmental Disaster Response Plan in the Floodplain Management and Hazard Mitigation Plan by reference.	All Hazards		Moderate	City Council, FMHMPC	N/A		Completed-The City's Departmental Disaster Response Plan (DDRP) was included by reference in the Floodplain Management and Hazard Mitigation Plan last year. The DDRP is a comprehensive collection of the specific responsibilities for each department during a disaster. The City is taking the prescribed steps to update the plan annually.	Completed
	Investigate potential coordination with SC DHEC to create a rainfall alert system.	Flood		Moderate	Public Works Department	Local funds		Completed. The Public Works Department has coordinated with SC DHEC and currently receives rain gauge information online. This data is then used to help design stormwater systems that mitigate problems in particular areas.	Completed

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Proposed Actions for 2018									
NA1	Update CRS list and map	Flood		High	Floodplain Manager, Planning	N/A	2018		Working Just received new Rep. Loss info in October of 2018.
NA2	Consider adopting Coastal A zones when on the new flood maps.	Flood		Moderate	City Council, FMHMP	N/A	2018		Considering
NA3	Evaluate Category 1 evacuation planning and impacts on the city.	Hurricane		Moderate	Fire Planning	N/A	2017		Completed This was carried out during hurricane Florence.
NA4	Publicize OCRM baseline changes	Flooding		High	Floodplain Coordinator	N/A	2017-2018		Completed
NA5	Partner with Waccamaw Stormwater Consortium to increase partnerships, getting grants, signage of flood heights	Flooding		Moderate	Planning Floodplain Coordinator	N/A	2018		Still considering.
Proposed Actions for 2019 Actions									
NA6	Research flood claims for repetitive loss properties.	Flooding		Moderate	Floodplain Coordinator Stormwater Manager	Grant	2019		
NA7	Produce a map showing the flooding during recent hurricane flood events.	Flooding		Moderate	Engineering	N/A	2019		

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NA8	Complete Flood Warning & Response Annex Plan	Flooding		Moderate	Emergency Manager	N/A	2019		
NA9	Hold after action meeting on hurricane Florence with department heads	Hurricanes		High	Emergency Manager	N/A	2019		
NA10	Present to City Council a report on the deployment of city employees to assist with Hurricane Michael in Florida.	Hurricanes			Emergency Manager	N/A	2019		