

SECTION 6 – MITIGATION STRATEGIES

The Atlantic County mitigation strategy emerged as a result of the discussions held during plan update meetings, a review of the previously proposed hazard mitigation actions from the 2016 Plan, a review of existing resources and capabilities, and a review of the 2019 State Plan. This plan section presents the mitigation initiatives that have been identified to reduce or avoid long-term vulnerabilities to the County's most significant hazards and key risks.

Selection and Prioritization of Mitigation Actions

Atlantic County and each participating jurisdiction updated their respective 2016 Plan mitigation strategies using this four-step process: (1) Report on Progress of 2016 Plan Initiatives, (2) Identify Past Mitigation Accomplishments, (3) Develop an Updated Local Mitigation Strategy for the 2021 Plan Update, and (4) Prepare Action Worksheets for the Community's Projects. These steps are described further below.

1. Report on Progress of 2016 Plan Initiatives

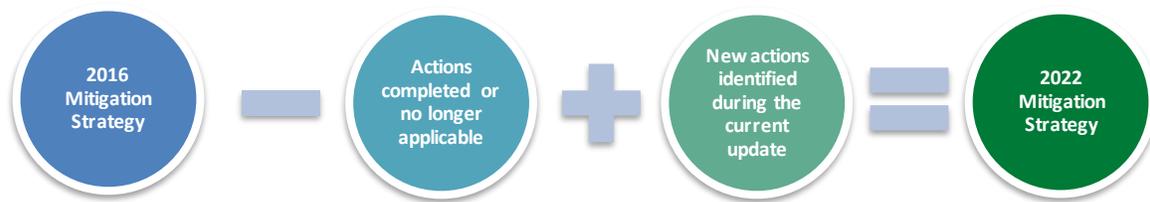
First, each jurisdiction assessed the progress of actions identified in the 2016 Plan. Team members described whether each project was completed, initiated but not completed, ongoing, or not initiated. Then, each action was either deemed to be still relevant for carrying forward to the updated 2021 mitigation strategy; or no longer relevant, and hence slated for omission from the updated 2021 mitigation strategy.

2. Identify Past Mitigation Accomplishments

State and Federal agencies require the documentation of local mitigation efforts and accomplishments since the previous hazard mitigation plan was prepared, regardless of funding source and regardless of whether the project was included in the prior plan. They note that the goal of this requirement is to provide a context for each jurisdiction's projects, act as a source of ideas for mitigation projects, and evaluate the accuracy of assumptions and engineering solutions to inform future projects, and to support future mitigation planning and its coordination with other planning, zoning, and environmental procedures within the jurisdiction. Each jurisdiction highlighted its past mitigation accomplishments from the time the 2016 Plan was approved. Jurisdictions identified each project, the hazard(s) addressed, provided a brief summary of the original problem and the solution (project), project cost, level of protection, and damages avoided (and/or evidence of success).

3. Develop an Updated Local Mitigation Strategy for the 2021 Plan Update

Next, each community developed a unique mitigation strategy to address their highest hazards and key risks, guided by the results of the updated risk assessment and FEMA's Mitigation Ideas document. This involved: carrying a subset of incomplete actions from the 2016 Plan, removing the actions from the 2016 Plan that were deemed to no longer be applicable, and adding other actions.



In consideration of how to mitigate key risk findings in each jurisdiction, a wide range of potential mitigation actions was considered by the County and each local JAT for each of the identified hazards.

Participating jurisdictions were advised to use FEMA's *"Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards"* (January 2013) to inform this step of the process. **Table 6.1** presents a broad-brush summary of measures that are included in the "Mitigation Ideas" document. More detailed information for each type of opportunity can be found in the Mitigation Ideas document, online at:

https://www.fema.gov/sites/default/files/2020-06/fema-mitigation-ideas_02-13-2013.pdf.

Participating jurisdictions were provided with the full document at the outset of this second plan update.

Participants were also encouraged to use the "Mitigation Ideas" document as a springboard for brainstorming possible solutions, and not limit themselves to the scope of activity types covered in "Mitigation Ideas". Use of the "Mitigation Ideas" document as a starting point across jurisdictions ensured a comprehensive baseline minimum of potential measures considered.

Table 6.1 – Types of Mitigation Alternatives Considered	
Coldwave/Heatwave	Local Planning and Regulations
	Reduce Urban Heat Island Effect
	Education and Awareness Programs
	Increase Awareness of Extreme Temperature Risk and Safety
	Assist Vulnerable Populations
Hurricane/Tropical Storm Wind	Educate Property Owners About Freezing Pipes
	Local Planning and Regulations
	Adopt and Enforce Building Codes
	Promote or Require Site and Building Design Standards to Minimize Wind Damage
	Assess Vulnerability to Severe Wind
	Protect Power Lines and Infrastructure
	Structure and Infrastructure Projects
	Retrofit Residential Buildings
	Retrofit Public Buildings and Critical Facilities
	Education and Awareness Programs
Increase Severe Wind Risk Awareness	

Table 6.1 – Types of Mitigation Alternatives Considered	
Hurricane/Tropical Storm Flood	Local Planning and Regulations
	Incorporate Flood Mitigation in Local Planning
	Form Partnerships to Support Floodplain Management
	Limit or Restrict Development in Floodplain Areas
	Adopt and Enforce Building Codes and Development Standards
	Improve Stormwater Management Planning
	Adopt Policies to Reduce Stormwater Runoff
	Improve Flood Risk Assessment
	Join or Improve Compliance with NFIP
	Manage the Floodplain Beyond Minimum Requirements
	Participate in the CRS
	Establish Local Funding Mechanisms for Flood Mitigation
	Structure and Infrastructure Projects
	Remove Existing Structures from Flood Hazard Areas
	Improve Stormwater Drainage System Capacity
	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures
	Elevate or Retrofit Structures and Utilities
	Floodproof Residential and Non-Residential Structures
	Protect Infrastructure
	Protect Critical Facilities
Construct Flood Control Measures	
Natural Systems Protection	
Protect and Restore Natural Flood Mitigation Features	
Preserve Floodplains as Open Space	
Increase Awareness of Flood Risk and Safety	
Education and Awareness Programs	
Educate Property Owners about Flood Mitigation Techniques	
Lightning	Structure and Infrastructure Projects
	Protect Critical Facilities and Equipment
	Education and Awareness Programs
Conduct Lightning Awareness Programs	
Tornado	Local Planning and Regulations
	Encourage Construction of Safe Rooms
	Require Wind-Resistant Building Techniques
	Education and Awareness Programs
Conduct Tornado Awareness Activities	
Wind	Local Planning and Regulations
	Adopt and Enforce Building Codes
	Promote or Require Site and Building Design Standards to Minimize Wind Damage
	Assess Vulnerability to Severe Wind
	Protect Power Lines and Infrastructure
	Structure and Infrastructure Projects
	Retrofit Residential Buildings
	Retrofit Public Buildings and Critical Facilities
	Education and Awareness Programs
	Increase Severe Wind Risk Awareness
Local Planning and Regulations	

Table 6.1 – Types of Mitigation Alternatives Considered	
Winter Storm	Adopt and Enforce Building Codes
	Structure and Infrastructure Projects
	Protect Buildings and Infrastructure
	Protect Power Lines
	Reduce Impacts to Roadways
	Education and Awareness Programs
	Conduct Winter Weather Risk Awareness Activities
Assist Vulnerable Populations	
Drought	Local Planning and Regulations
	Assess Vulnerability to Drought Risk
	Monitor Drought Conditions
	Monitor Water Supply
	Plan for Drought
	Require Water Conservation During Drought Conditions
	Prevent Overgrazing
	Structure and Infrastructure Projects
	Retrofit Water Supply Systems
	Natural Systems Protection
	Enhance Landscaping and Design Measures
	Education and Awareness Programs
	Educate Residents on Water Saving Techniques
	Educate Farmers on Soil and Water Conservation Practices
Purchase Crop Insurance	
Flood	Local Planning and Regulations
	Incorporate Flood Mitigation in Local Planning
	Form Partnerships to Support Floodplain Management
	Limit or Restrict Development in Floodplain Areas
	Adopt and Enforce Building Codes and Development Standards
	Improve Stormwater Management Planning
	Adopt Policies to Reduce Stormwater Runoff
	Improve Flood Risk Assessment
	Join or Improve Compliance with NFIP
	Manage the Floodplain Beyond Minimum Requirements
	Participate in the CRS
	Establish Local Funding Mechanisms for Flood Mitigation
	Structure and Infrastructure Projects
	Remove Existing Structures from Flood Hazard Areas
	Improve Stormwater Drainage System Capacity
	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures
	Elevate or Retrofit Structures and Utilities
	Floodproof Residential and Non-Residential Structures
	Protect Infrastructure
	Protect Critical Facilities
	Construct Flood Control Measures
	Dam Mitigation Measures
	Natural Systems Protection
	Protect and Restore Natural Flood Mitigation Features

Table 6.1 – Types of Mitigation Alternatives Considered	
Flood, continued	Preserve Floodplains as Open Space
	Education and Awareness Programs
	Increase Awareness of Flood Risk and Safety
	Educate Property Owners about Flood Mitigation Techniques
Earthquake	Local Planning and Regulations
	Adopt and Enforce Building Codes
	Incorporate Earthquake Mitigation into Local Planning
	Map and Assess Community Vulnerability to Seismic Hazards
	Conduct Inspections of Building Safety
	Structure and Infrastructure Projects
	Protect Critical Facilities and Infrastructure
	Implement Structural Mitigation Techniques
	Education and Awareness Programs
	Increase Earthquake Risk Awareness
	Conduct Outreach to Builders, Architects, Engineers, and Inspectors
Provide Information on Structural and Non-Structural Retrofitting	
Landslide	Local Planning and Regulations
	Map and Assess Vulnerability to Landslides
	Manage Development in Landslide Hazard Areas
	Structure and Infrastructure Projects
	Prevent Impacts to Roadways
	Remove Existing Buildings and infrastructure from Landslide Hazard Areas
Wildfire	Local Planning and Regulations
	Map and Assess Vulnerability to Wildfire
	Incorporate Wildfire Mitigation in the Comprehensive Plan
	Reduce Risk through Land Use Planning
	Develop a Wildland Urban Interface Code
	Require or Encourage Fire-Resistant Construction Techniques
	Structure and Infrastructure Projects
	Retrofit At-Risk Structures with ignition-Resistant Materials
	Create Defensible Space Around Structures and Infrastructure
	Conduct Maintenance to Reduce Risk
	Natural Systems Protection
	Implement a Fuels Management Program
	Education and Awareness Programs
	Participate in FireWise Program
Increase Wildfire Risk Awareness	
Educate Property Owners about Wildfire Mitigation Techniques	

Local mitigation strategies in this 2021 Plan Update include: (1) actions carried forward from the 2016 Plan, and (2) new actions added over the course of this first plan update. For each action, jurisdictions have laid out the initiative name, goals being met, hazard(s) to be mitigated, a description of the problem and proposed solution. They also have identified whether the project is related to critical facility, whether there are known environmental or historic preservation issues, provided an estimated timeline for completion, identified a local lead for project implementation, estimated costs and benefits, and identified potential funding sources. Project priorities were determined using a qualitative prioritization process. A higher priority was assigned to projects where: the life/safety risk of taking no action was deemed to be unacceptably high; the project addresses one of the community's highest hazards and/or key risks; benefits were projected to equal or exceed project costs; critical facilities or key local assets were being protected; funding and staff resources were deemed to be sufficient and/or accessible for project implementation; negative impacts were not anticipated on environmental and/or historic resources or any segment of the population; and/or where there was overall support for the project from the local community (government officials, public, and stakeholders).

4. Prepare Action Worksheets for the Community's Projects

In accordance with the State Plan, each jurisdiction prepared a detailed Action Worksheet for each project in their mitigation strategy. Action Worksheets for carried forward projects were checked and updated as needed by each jurisdiction. Action Worksheets for deleted projects were deleted. New Action Worksheets were prepared for projects added during this second plan update process. For jurisdictions containing a Special Flood Hazard Area, at least one of these Action Worksheets has been prepared for a project that addresses flooding. Please refer to each Jurisdictional Annex for details.

Local Mitigation Strategies

Using this four-step process, the County and each participating jurisdiction developed an updated mitigation strategy for the 2021 plan update. The County and its consultant facilitated this process through a series of virtual working sessions held between the consultant and representatives of individual jurisdictions during the week of June 14-18, 2021. The consultant also provided support to individual municipalities in the development of their mitigation strategies and completion of the worksheets via numerous emails and telephone calls throughout the plan update timeline, but especially in the period from mid-August 2021 through mid-September 2021.

Communities that were not able to attend meetings or working sessions received meeting and support materials via ACOEP. This second update of the plan proposes the actions determined to be the most appropriate for the resources and capabilities of the County and each of the participating jurisdictions based on the experience of local officials, with input from the public and other stakeholders. The relatively large number of flood mitigation actions proposed in the local mitigation strategies reflects the fact that flooding as a generic event involving inundation by water from any source is perceived as the hazard of greatest concern in most communities.

The updated risk assessment indicates that the predominant source of flood damage in Atlantic County is coastal flooding, which for the purposes of the vulnerability assessment was considered to be equivalent to the stillwater component of storm surge flooding (i.e. without the damages associated with wave action) in HAZUS. Much of the significant flooding observed in Atlantic County occurs in back bay areas (both on the barrier islands and the mainland) away from the shorefront areas, and often takes the form of drainage systems backing up because their outlets have been blocked by inundation, so they may not always be perceived as directly storm-derived. However, these flood events may be attributable to storm surges in some form since they are caused by the effects of meteorological events of a wide range of magnitudes.

Also, it was emphasized in meetings and individual support sessions with CPG members that the 2019 State Plan Section 3.3 continues to make Severe Repetitive Loss (SRL) and Repetitive Loss (RL) properties the top priority for prioritizing mitigation actions at the state level.

Actions selected include activities to protect existing and future structures and infrastructure and enhance community resilience. Communities evaluated a range of mitigation actions to address their greatest vulnerabilities and key risk findings. Specific mitigation actions were less frequently considered for hazards that were not identified for a given community. “Lesser hazards” – those of least concern due to low average annual damages and/or risk findings where the identified risk was deemed to be acceptable – were typically addressed via less tangible measures, often via education and awareness programs.

Local mitigation strategies are summarized briefly in **Table 6.2** (for County projects) and **Table 6.3** (for municipal projects); they are presented in much greater detail in each Jurisdictional Annex. These tables present all new and previous municipal and County actions that are being carried forward into the next plan update cycle

Note: The Action Number in Table 6.3 may not be entirely sequential for all municipalities. Some municipalities chose to retire action numbers once they had been completed, considered no longer relevant, or otherwise not selected to be carried forward in the plan update, while some elected to reassign the numbers of dropped or completed actions to new actions.

Actions carried forward from the 2016 plan have the same action number as in the previous plan update unless otherwise noted in Tables 6.2 and 6.3.

SECTION 6 – MITIGATION STRATEGY

Table 6.2 – Overview of Atlantic County Mitigation Strategy
Detailed information is provided in the Atlantic County Jurisdictional Annex

Action #	Project Description	Hazard(s) Addressed	Priority
1	Road elevations and bulkheading: intersection of Wellington Avenue (County Route 629) and Albany Avenue (US Route 40/322)	Flood, Hurricanes/Tropical Storms, Nor'easters	H
2	Improve stormwater pump facility (Ventnor Avenue (County Route 629), New Brunswick Avenue, and Winchester Avenue)	Flood, Hurricanes/Tropical Storms, Nor'easters	H
3	Public Awareness and Education	All	H
4	Review of local comprehensive plans for incorporation of disaster mitigation techniques	All	M
5	Workshops for municipalities regarding zoning and planning issues that arise regarding hazard mitigation	All	L
6	Integrate principles of hazard mitigation plan into local planning and regulations	All	H
7	Update and maintain ACOEP website	All	H
9	Review and update of local codes and ordinances to address hazards	All	M
10	Integrate hazard mitigation into development plans and strategies	All	H

Table 6.3 – Overview of Municipal Mitigation Strategies
Detailed information is provided in each Jurisdictional Annex.

Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
Absecon, City of	1	Elevation of Shore Road and intersecting streets; storm sewer infrastructure to provide positive drainage for stormwater runoff; improved pedestrian and mass transit facilities	Flood	H
	2	Euclid Drive - Steel sheet piling; storm sewer infrastructure; timber ramps to provide access to various boating facilities; and roadway reconstruction.	Flood, Storm Surge	M
	3	Marlin Road, Showellton Avenue, and Ohio Avenue - Steel sheet piling; storm sewer infrastructure; timber ramps to provide access to various boating facilities; and roadway reconstruction.	Flood	M
	5	South Mill Road - Roadway elevation; storm sewer infrastructure to provide positive drainage for stormwater runoff; and roadway reconstruction.	Flood	M
	6	The Faunce Landing Pump Station, Drive-in Pump Station, Reeds Bay Pump Station, and Illinois Avenue Pump Station - New elevated wet well with site lighting, fencing, emergency generator, elevated access platform, and other required components.	Flood, Storm Surge	M
	7	Replace existing outfall pipe with new 6'x3' box culvert pipe on Berkley Avenue; construct new outfall to Absecon Creek on Euclid Drive; reconstruct roadways (New)	Flood	M
	8	Hobart Avenue Drainage Improvements - Replace existing undersized outfall pipe with larger pipe within existing drainage easements and on Amy Lane, Shore Road (NJ Route 157) and Sooy's Lane; extend outfall and upgrade channel; reconstruct roadways. (New)	Flood	M
	9	Assist homeowners located on repetitive loss properties in applying for FEMA funding to elevate their existing dwellings above the design flood elevation. (New)	Flood	M
	Atlantic City, City of	1	Install and maintain inlet grates that keep debris out of the drainage system (New)	Flood
2		Baltic Avenue Drainage Improvement/Stormwater Project	Flood	H
3		Boardwalk Hall Flood Control System	Flood	H

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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	4	Installation of new bulkhead along Inside Thorofare from Albany Avenue to Jackson Avenue	Flood, Storm Surge	H
	5	Install new bulkheads, living shorelines, and pump stations in low lying areas	Flood, Storm Surge	H
	6	Continue to Update Codes	All	H
	7	Develop microgrids, backup electric, and telecommunications systems in critical facilities (New)	All	H
	8	Elevate Albany Avenue between Sunset Avenue and Ventnor Avenue (Action 10 in 2016 Plan)	Flood	H
	9	Elevate repetitive loss residential properties (Action 8 in 2016 Plan)	Flood	H
	10	Elevate Traffic Signal Control Boxes (Action 9 in 2016 Plan)	Flood, Coastal Erosion	H
	11	Install Emergency Communications Systems	All	H
	12	Install ten Emergency Generators at various locations	All	H
	13	Maintain the Floodplain Management Plan (Action 13 in 2016 Plan)	All	H
	14	Promote public education about hazards and the mitigation plan (Action 13 in 2016 Plan)	All	H
	15	Install new bulkheads along Sunset Avenue in Chelsea and Ducktown	Flood, Coastal Erosion	H
	16	Dry Flood Proof City Hall and the All Wars Memorial Building (Action 7 in 2016 Plan)	Flood	H
	17	Repair Bulkheads and Dredge Gardner's Basin Park (New)	Flood	H
	18	Inspect and Replace Check Valves along the bayfront (New)	Flood, Coastal Erosion	H
	19	Improve Community Rating System Designation (New)	Flood	H
Brigantine, City of	1	Periodic review of plans and codes, and changes (Action 5 in 2016 Plan)	All	H
	2	Targeted area for Blue Acres Acquisition primarily on Brigantine Avenue, Harbor Beach Boulevard and East Evans Avenue. (New)	Flood	H
	3	Maintain active training schedules for all relative officials (Action 3 in 2016 Plan)	All	H
	4	Continue to revise local codes that needed to be adjusted to mitigate potential damages and loss of life (Action 4 in 2016 Plan)	All	H
	5	Emergency Generator Installation–City Hall, South End Sewer Lift Station, Jenkins Parkway Sewer, Harbor Beach Boulevard Stormwater Lift Station, Public Works SCADA Control Center, 12th Street Stormwater Pumping Station. (New)	Flood	H
	6	Inspect all check valves and replace/repair as needed. (New)	Flood	H
	7	Utilize existing "reverse 911", Nixle service, social media accounts, local emergency AM radio system. Ensure local websites are up to date and information linked to AC Install City-Wide Warning System/Implement IPAWS notifications using cell towers OEM. Install remotely actuated road flood barrier warning system (Action 7 in 2016 Plan)	All	H
	8	Continue to revise the Floodplain Management Plan, Repetitive Loss Analysis, Natural Resources Plan, Watershed Management Plan, mapping elevation certificates, and other actions. (New)	All	H

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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	9	Close bulkhead gaps; Elevate bulkheads (Public and Private) Poinsettia Way, Lilac Way, Golf Course, Pepper Cove, 13th Street North to 14th Street North, Bayside Gabion, 9th Street North to 5th Street North - Oceanside (New)	Flood	H
	10	Continue the apply for FEMA Funding to elevate homes. (New)	Flood	H
	11	Support floodproofing for commercial buildings in the Business District (New)	Flood	H
	12	Install and maintain inlet grate, debris collectors, and outlet structures. (New)	Flood	H
	13	Install and maintain inlet grate, debris collectors, and outlet structures. (New)	Flood	H
	14	Maintain golf course drainage area (New)	Flood	H
	15	Install City wide warning system and implement IPAWS notifications using cell towers. (New)	Flood	H
	16	Elevate evacuation routes (New)	Flood	H
	17	Elevate selected roads with drainage improvements - Brigantine Boulevard by Edgewater; Harbor Beach Boulevard; Sarazen Boulevard; Evans Boulevard; Lafayette Boulevard (New)	Flood	H
	18	Extend North End Seawall by 275 feet northward and to Bayside Create vehicle crossover; implement beachfill from 15th Street North to 4 WD entrance. (New)	Flood, Coastal Erosion	H
	19	Continue back passing operation for beach replenishment - North End (New)	Flood, Storm surge	H
	20	Complete drainage improvements and inlet installation (for example 32nd - 40th Street South). (New)	Flood	H
	21	Install flood wall at City dock (2519-2601 Bayshore Avenue) (New)	Flood	H
	22	Road Elevation/Berm Transformation - identify and construct streets that can also function as berms or floodwalls. (New)	Flood	H
	23	Real estate disclosure of hazards (New)	Flood	H
	24	Integrated flood hazard/sea level mapping (New)	Flood, Sea level rise, Storm surge	H
Buena Vista, Township of	1	Replace aging and collapsing existing failing stormwater piping and inlets	Flood	H
	2	Elevation of Pancoast Mill Rd and Dam bridge improvement.	Flood	H
	3	Alleviate flooding of Chestnut Ave via stormwater management.	Flood	H
	4	Alleviate flooding on Vine Rd via stormwater management and drainage.	Flood	H
	5	Review existing hazard mitigation plan and recurring situations within Buena Vista.	All	H
	6	Advocate for inclusion of Cranberry Run in flood zones	Flood, Hurricane/Tropical Storm, Nor'easter	M
	7	Install retention areas to limit flooding and risk to properties. Areas inclusive of, but not limited to, the Highland Avenue/Milmay area.	Flood, Hurricane/Tropical Storm, Nor'easter	H
	8	Retrograde/upgrade inadequate piping currently in place to handle projected flows inclusive of but not limited to the Collings Lakes area. Areas inclusive of, but not limited to, the Highland Avenue/Milmay area.	Flood, Hurricane/Tropical Storm, Nor'easter	H

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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	9	Upgrade drainage systems. Actions that are inclusive of but not limiting to increasing capacity and culverts to limit ponding in the areas throughout the township.	Flood, Hurricane/Tropical Storm, Nor'easter	M
	10	Retrofit and upgrade the drainage system in the area of Cedar Gardens	Flood, Hurricane/Tropical Storm, Nor'easter	M
	11	Identify and retrofit shelters for vulnerable populations	Flood, Hurricane/Tropical Storm, Nor'easter	M
	12	Personnel to establish plans to educate community including use of PSAs, website, flyers, brochures, social media, etc. and enhance OEM deployment and community emergency preparedness capabilities.	All	H
	13	Retrofit or acquire/relocate to protect structures from future damage, with recurring loss and severe repetitive loss properties as a priority. Phase 1 - identify appropriate candidate properties and prioritize. Phase 2 - determine most cost effective mitigation option. Phase 3 - Work with the property owners to implement selected action based on available funding from FEMA and local match availability	Flood, Hurricane/Tropical Storm, Nor'easter	H
	14	Lake Ann Access Route / Firewise. Determine feasibility of restoring previous secondary access road or identify and create secondary access for at least emergent ingress/egress access. Participate in fire community efforts to reduce risk.	Flood, Hurricane/Tropical Storm, Nor'easter	H
Buena, Borough of	1	Install generator for Road Department Building to replace temporary generator currently being utilized. Road Dept trucks needed to maintain passable roadways during severe weather and storms for the public and emergency services. (Action 2 in 2016 Plan)	All	H
	2	Addition and installation of two, 20 kilo watt generators at pumping stations located within the Borough to prevent an interruption of the sanitation system and water supply to residents and businesses the Borough. (Action 3 in 2016 Plan)	All	H
	3	Purchase three mobile 20kW Towable Diesel Generators (New)	All	H
	4	Utilize existing Reverse 911 and Everbridge system through Gloucester County ERC as well as link Borough website to ACOEM. (New)	All	H
Corbin City, City of	1	Installing coir logs and sand to stabilize beach	Coastal Erosion	H
Egg Harbor, City of	1	Participation in County Plan Update	All	H
	2	Retrofit dam to prevent to prevent overtopping during a hazard event; retrofit retaining wall and spillway	Flood	H
	3	Increase carrying capacity of creeks	Flood	M
	4	Identify and prioritize with residents/business owners to trim trees and develop City-wide maintenance program. Acquire equipment and obtain training to allow City personnel to remove fallen tree.	Flood, Hurricane/Tropical Storm, Nor'easter	M
	5	Assess system and identify locations to upgrade City water & sewer mains	Drought, Earthquake	H

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	6	Prioritize and investigate options to mitigate vulnerable structures	Flood, Hurricane/Tropical Storm, Nor'easter, Winter Storm, Wildfire	H
	7	Develop and implement and enhanced all hazard, public outreach, education, and mitigation information plan. Prepare and distribute surveys, provide information in mailings, use various media to distribute information, and develop/maintain page on City website dedicated to hazard mitigation.	All	H
	9	Code update: Review existing local codes and ordinances against the identified hazards to determine whether there need to be any amendments to address identified hazards and, where a need is identified, modify/amend the codes/ordinances as applicable. (prevention)	All	H
	10	Code enforcement: Enforcement of State and Local Building Codes with Continual CEO training. (prevention)	All	H
	11	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review of draft plans by the County Planning Department	All	M
	12	Update information on the local web site regarding preparing for emergencies to incorporate profiled hazards not already discussed in these documents, and ensure that the information continues to be maintained on the web site. (public education)	All	H
	13	Hold periodic workshops for municipalities regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation (prevention)	All	M
	14	Ensure that the principles of this hazard mitigation plan are integrated into the new and updated development plans/strategies. (prevention)	All	M
Egg Harbor, Township of	1	The use of the media and social media to educate the public on what mitigation is and the benefits.	All	H
	3	The reconstruction of damaged bulkheads in Seaview Harbor Area.	Flood	H
	4	Generators on the pumps on West Avenue and in Delilah Oaks would prevent flooding and property damage in severe weather.	Flood	H
	6	Upgrade the current diesel generator at the Police Department to a larger natural gas powered generator	All	H
	7	Purchase and installation of generators at #12, #13, #15, #20, #21, #28, #29, #32, #33, #34, #35, #38, #40, #43 provide for uninterrupted power to sewer pumping stations, avoiding sewer overflows that create a health, safety, and welfare issue	All	H
	8	Identify the owners of Repetitive and Severe Repetitive Loss Properties. Communicate with those owners and identify the proper/ cost effective mitigation actions for each. (New)	Flood	M
Estell Manor, City of	1	Install Dry Hydrants	Wildfire	H
	2	Drainage improvements - storm drains throughout the city	Flood	L
	3	Public Outreach	All	H

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	5	State building codes - code enforcement (Action 4 in 2016 Plan)	All	M
	6	Incorporate hazard mitigation concepts into the master plan	All	M
	7	County website updates	All	H
	8	Conduct workshops on hazards and hazard mitigation	All	L
	9	Add into master plan - information on hazards and hazard mitigation	All	H
Folsom, Township of	1	Drainage improvements - cleaning debris and upgrading systems. South River Dr. and Park Ave area and Collings Lakes area for town. (address to be identified in the future)	Flood	H
	2	Public awareness and education program. Put on local TV station, links on town website along with monthly announcements at town hall meetings. Share pertinent information on social media	All	H
	3	Review and update our local codes and ordinances. The committee along with planning and zoning board of adjustments review and bring back to council for approval and or changes.	All	M
	4	Review and enforce all plans and permits and codes. Protect existing development and future development	All	M
	6	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards. Educate public and planning and zoning board members. Workshops for municipalities regarding planning and zoning. Committee reviews and brings to council for approval.	All	L
Galloway, Township of	1	Retrofit the Municipal Complex to withstand hurricane force winds by installing storm shutters and a vestibule that would sustain 120 mph winds.	Extreme Wind, Hurricane/Tropical storm, Nor'easter	H
	2	Protection of Fire stations Reducing damage to structures and infrastructure. Preventing the evacuation of firefighters during a natural disaster. The economic benefit is the continuation of emergency services during time of disaster.	Extreme Wind, Hurricane/Tropical storm, Nor'easter	H
	3	Investigate mitigation option for all repetitive loss properties (new)	Flood	M
Hamilton, Township of	1	Repair water level control system and maintenance of the dam structure (Lake Lenape Dam)	Flood, Hurricane/Tropical Storm, Nor'easter	H
	3	Replacement of the existing cedar shake roofing and siding on at least three campus buildings with flame resistant materials. (Atlantic County Community College)	Wildfire	M
	4	College staff at Atlantic County Community College will work with the NJ Forest Fire Service to manage understory vegetation and prevent the buildup of leaf litter in wooded areas proximate to campus facilities.	Wildfire	M
	5	Public works will conduct periodic inspection & maintenance of Township owned stormwater management basins to maintain function	Flood, Hurricane/Tropical Storm, Nor'easter	H
	6	Retrofit inlets and install piping to convey floodwater from this location to the Great Egg Harbor River below the Lake Lenape Dam	Flood, Hurricane/Tropical Storm, Nor'easter	M

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
Detailed information is provided in each Jurisdictional Annex.

Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	7	Conduct a watershed study to determine the current and future stormwater entering the lake; conduct a capacity analysis of the ability of the dam to retain current & future stormwater flows; identify alternate pre-lake flood mitigation measures; and, implement a redesign of the dam to provide the capacity needed to retain the increased stormwater flow.	Flood, Hurricane/Tropical Storm, Nor'easter, Dam failure	H
	10	Relocate and harden the Masonic Pump Station.	Flood	H
	12	Install standby backup generators at each of the rural fire companies to power the wells.	All	M
	13	Public awareness program on Hazards, Prevention, and Mitigation: County will maintain a hazard mitigation and mitigation planning web presence (local municipal web sites to link up to this site, if they haven't already done so); all participating jurisdictions to support preparation of a joint annual hazard mitigation and mitigation planning fact sheet and its distribution; periodic discussion of hazard mitigation and the mitigation plan at other regular local meetings; use of annual flyers, newsletters, advertisements, or radio/tv announcements, etc. at the discretion of each jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	H
	17	Update information on the local web site regarding preparing for emergencies to incorporate profiled hazards not already discussed in these documents, and ensure that the information continues to be maintained on the web site. (public education)	All	H
	18	Hold periodic workshops for municipalities regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.(prevention)	All	L
	19	Ensure that the principles of this hazard mitigation plan are integrated into the new and updated development plans/strategies. (prevention)	All	H
	20	Retrofit Town Hall to withstand hurricane force winds to provide shelter and maintain essential emergency services	Flood, Hurricane/Tropical storm, Nor'easter, Winter storm	M
	21	Construct an emergency spillway for the Lake Lenape dam	Flood, Hurricane/Tropical Storm, Nor'easter	M
	22	Identify repetitive loss property home owners, and assist the owners in identifying cost effective mitigation actions, and assist with grant applications (new)	Flood	M
Hammonton	1	Install power switches at local gas stations and in other locations to use a mobile generator to purchase fuel for response vehicles	All	H
	3	Retrofit locations (multiple locations) to accept mobile generators (generators under separate action worksheet	All	H
	4	Convert existing generator to use alternate fuel/ energy source	All	H
	6	Use Town CFMP & other means to remove trees that cause a hazard to power lines/ buildings & roadways	Extreme wind	H

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	7	Identify flood prone properties in the A-Zone for reference and possible acquisition	Flood	H
	8	Complete conceptual design to provide flooding relief, Anderson Ave	Flood	H
	9	Desilt, desnag stream corridors, replace damaged pipe, provide areas for stream water during heavy rain events	Flood	M-H
	10	Achieve / maintain CFM certification for floodplain manager	Flood	H
	17	Identify location of repetitive loss property and mitigation options, assist owner with FEMA grant application if willing to participate (new)	Flood	H
	CF-1	Clean/manage basins on evacuation route	Flood	H
	CF-3	Public awareness program	All	H
	CF-4	Send code enforcement officer to training to improve education	All	M
	CF-5	County review of Natural Disaster plans	All	M
	CF-6	Hold workshop to educate town staff/ volunteers	All	M
	CF-7	Integration of Hazard Mitigation Plans into development plans	All	H
Linwood, City of	1	Edgewood Avenue Drainage Improvements. Replace portions of storm drainage system with large capacity pipe and new storm drain inlets, and new head wall at the outfall at the end of Edgewood Ave.	Flood	H
	2	Lincoln Avenue Drainage Improvements. Replace portions of storm drainage system with large capacity pipe on the downstream portion of the system. Replace storm drain inlets and new headwall at the outfall.	Flood	H
	3	Several locations; Sea Garden Drive, Bloom Site, Fallingwater & Van Sant Ave, require construction of new head walls and installation of back flow prevention valves to prevent tidal waters from infiltrating the stormwater management system and retrofitting of the upstream stormwater inlets.	Flood	H
	4	West Ave Culvert replacement. West Ave bisects a section of coastal marshlands along Patcong Creek. The marsh is tidally influenced and tidal water passes beneath West Ave through two 24-inch pipes comprising the "culvert." The project would replace the culvert including pipes and headwalls with larger diameter pipes to allow tidal and primarily flood waters to recede a quicker rate.	Flood	M
	5	River Drive Reconstruction. Project involves elevating River Drive as well as a portion of Poplar Ave. Reconstruct four stormwater outfalls as well as their up-stream stormwater inlets. The outfall structures will be fitted with a backflow prevention valve to prevent tidal waters from infiltration.	Flood	M
	6	Raise sanitary sewer pump stations, or vulnerable components thereof, and install permanent back-up generators.	Flood, Storm surge, Hurricane/Tropical Storm, Nor'easter	M
	7	Investigate mitigation option for repetitive loss property (new)	Flood	M

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority	
Longport, Borough of	1	The Borough thru the CRS Director distributes Emergency Preparedness information to the public via Town Topics, Legion Phone Directory, Library & annual mail	All	H	
	3	Preparedness & resiliency planning	All	H	
	4	"Post Recovery Plan" should address all concerns with reconstruction within our community after a major event -	All	H	
	5	Reverse 911 - warning banner on Boroughs Web Site & local TV, Facebook & twitter	All	H	
	7	Structural Flood Mitigation, Elevates RL, SRL, and properties below the BFE to a minimum of +2' above BFE	Flood	H	
	8	Purchase a generator, install on mobile trailer, cross connections to feed existing generators in case of power failures	Flood	H	
	12	Structural project - all utility lines going under ground	All	L	
	14	Dunes installed to protect our community	Flooding	H	
	15	Increase setbacks beach front properties	Flood, Wave action	L	
	17	Annually review our codes to make sure they address the plan's goals & objectives	All	M	
	18	Hire consultant to perform a feasibility study all critical facilities in order to determine best mitigation practices and/or reconstruct	Flood	H	
	20	Elevate/Protect Critical Facilities	Flood	H	
	22	Construct a new Public Works Complex to a 500 yr level	Flood	H	
	24	Install flood vents, back fill basement and/or crawl space, elevate electric Borough Buildings (New)	Flood	H	
	25	Plug open scuppers in bay side bulkheads and install Duck bills for approximately 10 storm drain outfalls (New)	Flood	H	
	26	Install new bulkheads at street ends at higher level - approx. 15 (New)	Flood	H	
	27	Install new bulkheads on bay front properties (New)	Flood	H	
	28	Upgrade storm system/pumps in 6 areas of the Borough (New)	Flood	H	
	29	Jetty/groin construction (New)	Coastal erosion, Wave action	H	
	Margate, City of	A-1	Targeted Open Space Acquisition including wetlands parcels owned by private parties. (New)	Flood	L
		A-2	Strengthen Floodplain Management Ordinance: Critical facilities standards, higher Freeboard (New)	Flood	M
		A-3	Future Conditions Standards for New Developments: adjust bulkhead ordinance to increase heights in vulnerable areas, freeboard, and other regulations to account for climate change. (New)	Sea level rise	M
		A-4	(From Capital Plan) Emergency Generator Installation- Bayshore Pump Station, Gladstone Water Tower Stormwater Pump Replacement (New)	Flood	M

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	A-5	Check Valve Inspections/Replace (New)	Flood	M
	A-6	Draft a Capital Improvement Plan (New)	Flood	M
	A-7	Complete a Repetitive Loss Area Analysis and Green Infrastructure /Natural Resources Plan (New)	Flood	M
	A-8	Update land use and Margate Master Plan. (New)	All	M
	A-9	(From Capital Plan) Locate the EOC and Communications Center on the 2nd floor of 9001 Winchester Avenue including dispatching, 911, etc. (New)	All	M
	A-10	(From Capital Plan) Secure additional GIS capabilities to add layers of information to evaluate flooding issues. (New)	Flood	M
	B-1	(From Capital Plan) Home Elevations- continue to apply for FEMA reimbursement grants and develop gap financing to support homeowners who have received grants (New)	Flood	H
	B-2	Close bulkhead gaps - Elevate bulkheads at various locations (New)	Flood	H
	B-3	Support floodproofing for commercial buildings in business districts (New)	Flood	M
	B-4	Amherst Avenue - Construct a new stormwater pump station with includes a concrete wet well, three submersible pumps, electric to the pumps, connection of existing piping, and installation of check valves. (New)	Flood	H
	B-5	Complete study to evaluate all Bay and Beach elevations and make recommendations for floodproofing (Action 3 in 2016 Plan) (New)	Flood	M
	B-6	Address flooding in Margate Business District	Flood	M
	B-7	Replace bulkheads at beach end of Jefferson and Frontenac Avenue (Action 1 in 2016 Plan)	Flood	M
	B-8	Replace bulkheads at Brunswick and Beach (Action 2a in 2016 Plan)	Flood	M
	B-9	(From Capital Plan) Improve School Fields to address flooding (New)	Flood	M
	B-10	(From Capital Plan) Decatur Playground Improvements (New)	Flood	M
	B-11	(From Capital Plan) Shelter Island Reclamation (New)	Flood	M
	B-12	(From Capital Plan) Back Bay Dredging – secure City-wide permit and complete phase 1 of the dredging project. (New)	Flood	M
	B-13	(From Capital Plan) Develop Plan for replacing bulkheads on private properties (New)	Flood	M
	B-14	(From Capital Plan) Dry Flood Proof City Hall heater room (New)	Flood	M
	B-15	(From Capital Plan) Public Works Property/Police Property Land Use Feasibility Study (New)	Flood	M
	B-16	(From Capital Plan) Implement Minnie Creek Drainage Recommendations (New)	Flood	M
	C-1	Establish a solar installation program including reintroducing solar at 9001 Winchester Avenue, Municipal Building (New)	Flood	M
	C-2	Establish a LED streetlight program including automated flashing flood zone signs during flood events. (New)	Flood	M
	D-1	Install City-Wide Warning System/Implement IPAWS notifications using cell towers (New)	All	M

SECTION 6 – MITIGATION STRATEGY

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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	D-2	(From Capital Plan) Install remotely actuated Road Flood Barrier Warning System (New)	Flood	M
	D-3	Elevate Evacuation Routes (New)	Hurricane/Tropical storm	M
	E-1	Install flood wall at City dock (2519-2601 Bayshore Ave) (New)	Flood	H
	E-2	Road Elevations/Berm Transformation- identify and construct streets that can also function as berms or floodwalls (New)	Flood	L
	E-3	Install and maintain inlet grates and debris collectors. Identify debris hotspots (New)	Flood	M
	E-4	Fire Station #2, Phase 2 garage space (New)	Wildfire	L
	E-5	Fire Hydrant Adapters (New)	Wildfire	L
	F-1	Require real estate disclosure of flood hazard (New)	Flood	M
	F-2	Elevation Certificates mapping (New)	Flood	M
	F-3	Integrated flood hazard/sea level rise mapping for Margate (New)	Flood	L
Mullica, Township of	1	Continue to make information easily accessible to residents at the municipal complex, on our website and hold periodic breakout sessions in areas of the township when the need arises.	All	H
	2	Acquisition of an attachment for a township owned front end loader that will enhance the ability to remove debris from a storm. The attachment is a grapple bucket that is able to move downed trees and large debris (Action 3 on 2016 Plan)	All	H
	3	Acquisition of 4 new tires for the compact utility vehicle capable of accessing unimproved and dirt roads, confined areas (New)	All	H
	4	Install 2 new headers and a pipe to help with water drainage on New Hampshire Ave. and 7th Ave. (New)	Flood	H
	5	Install 2 new drainage basins on Moss Mill Road and Darmstadt (New)	Flood	H
	6	Identify the owners of repetitive and severe loss Properties. Communicate with those owners and identify the proper/Cost effective mitigations actions for each. Assist willing owners with grant applications. (New)	Flood	M
Northfield, City of	1	Hire an arborist(s) to assess tree health within the community and remove those at risk of falling due to disease or other factors to prevent the loss of power due to a tree (limbs) falling on power lines and creating additional hazards	Hurricane/tropical storm, Extreme wind, Lightning, Nor'easter, winter storm	H
	2	Evaluate, Design and Install an 50kW emergency power generator to provide 100% power generation at the Public Works facility in the event of a power failure.	Hurricane/tropical storm, Extreme wind, Lightning, Nor'easter, winter storm	H
	4	Seek out through various means (social media, senior citizens organizations, public presentations, Register Ready, Fire Department) the at-risk population for the City of Northfield	Hurricane/tropical storm, Extreme wind, Nor'easter, winter storm, Flood	H
	7	Purchase and installation of public warning siren/public address system.	Hurricane/tropical storm, Extreme wind, Nor'easter	L

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	9	Construct EOC to local hurricane standards and state of the art technology	Severe Weather, High Winds, Lightning/Electrical Storms, Flooding, Multi-Hazard	M
	10	Identify and design improvements to existing storm drainage problem areas	Hurricane/tropical storm, Extreme wind, Nor'easter, winter storm, Flood	M
	15	Equipping of a facility for emergency shelter capability	Hurricane/tropical storm, Extreme wind, Nor'easter, Lightning, winter storm, Flood	H
	14	Identify Repetitive Loss properties and develop mitigation strategies in coordination with city engineer and property owners	Flood	H
	16	Purchase and installation of mapping software (ArcViewer is free) with plotter to aid in future development and planning with regards to floodplains and other emergency preparedness activities	Hurricane/tropical storm, Extreme wind, Nor'easter, Lightning, winter storm, Flood	L
	17	Software acquisition – Reverse 911 mass notification system (New)	All	H
	18	Upgrading of existing infrastructure – old sewer lines (New)	Flood	H
	19	Upgrading of existing infrastructure – map storm sewer system (New)	Flood	H
	20	Installation of emergency backup generator for emergency shelter (New)	Hurricane/tropical storm, Nor'easter	H
Pleasantville, City of	1	Edgewater Avenue - install new culvert	Flood	M
	2	Park Avenue- install additional outfall	Flood	M
	3	City provides technical assistance to residents in their engagement in NFIP	Flood	H
	4	Continue to provide preparedness education and community outreach. The action will involve community focused meetings targeting the at risk areas, flood insurance, resiliency and actions that property owners can take to reduce damage.	All	H
	5	Continue to adopt higher standards, adopted state codes, and incorporate all flood standards on an ongoing basis.	All	M
	6	Continue to ensure that all buildings and structures are up to current code.	All	M
	7	Continue to ensure that local comprehensive plans incorporate natural disaster mitigation techniques and future planning recommendations.	All	M
	8	Continue to update information and monitor the City website to include updates and emergency preparedness information.	All	H
	9	Hold periodic workshops for municipalities through zoning/planning boards and town meetings.	All	L

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	10	Make sure principles of this hazard mitigation plan are integrated into new and updated development plans.	All	H
	11	Develop specific mitigation solutions for flood prone roadways: Edgewater Avenue, Route 9 and Park Avenue, California Avenue and Main Street, Mulberry Avenue between Franklin Blvd and Main Street, Leeds avenue 200-300 block, Decatur Ave and Franklin Avenue, Franklin and Tunis Avenue, Bayview Ave and Edgley Avenue. Roads that need to be elevated per Atlantic County Flood Hazard Inventory include: E. Edgewater Avenue, E. Oakland Ave., E. Greenfield Avenue, E. Park avenue, S. Edgely Avenue, Prospect avenue, S. Main Street from E Bayview Ave to E. Greenfield Avenue	Flood	H
	12	Installation of new emergency generators at pumping stations and the Recreation Center. New alert and warning system at two points in the city will be able to provide immediate notification of the citizens of upcoming events.	Flood	H
	13	Bulkhead replacement along Lakes Bay and Tunis Basin to protect existing homes and infrastructure. (New)	Flood	H
	14	Continue the purchase of low lying areas using Blue Acres Funds. (New)	Flood	H
	15	Continue to the apply for FEMA Funding to elevate homes. (New)	Flood	H
Port Republic, City of	1	Slope Protection at Mill Pond	Hurricane/tropical storm, Coastal erosion, Flood	H
	4	Upgrade drainage by increasing the flow of capacity along areas that are inclusive of but not limited to Clarks Mill Stream and Moss Mill Stream drainage areas; may include increasing culvert sizes.	Hurricane/tropical storm, Coastal erosion, Flood	H
	5	Implement protective measures for stone slope protection to prevent erosion along the east bank of Nacote Creek.	Hurricane/tropical storm, Coastal erosion, Flood	H
	6	Update Mill Street Dam with automatic spillway	Hurricane/tropical storm, Coastal erosion, Flood	H
	7	Fully participate in future 5-year updates of the Atlantic County Multi-Jurisdictional Hazard Mitigation Plan.	All	H
	8	Work together with the County, State and local agencies to develop and implement an enhanced all hazard, public outreach, education, and mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance. Prepare and distribute surveys, provide information in mailings, use various media to distribute information, and develop/maintain page on City website dedicated to hazard mitigation.	All	H
	10	The proposed action is to: (1) analyze the relevant issues as well as funding options to provide protection to natural areas like the Mullica River and Nacote Creek to the maximum extent possible, and (2) implement prioritized actions as funding becomes available.	Hurricane/tropical storm, Coastal erosion, Flood	H

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
Somers Point	1	Construct living shorelines to protect against flooding and wave action along Bay Avenue, Somers Point-Mays Landing Road and properties adjacent to the Parkway (New)	Hurricane/tropical storm, Nor'easter, Flood, Wave action	H
	2	Raise the height of existing bulkheads along Bay Avenue to protect from wave action and flooding (Action 8 in 2016 Plan)	Hurricane/tropical storm, Nor'easter, Flood, Wave action	M
	3	Inspect all check valves and replace/repair as needed. (Action 9 in 2016 Plan)	Flood, Storm surge	H
	4	Install and maintain inlet grate, debris collectors, and outlet structures (check valves). (New, includes elements of prior actions)	Flood	H
	5	Install School House Pump Station; Yale Boulevard Pump Station and Generator; Gulph Mills Pump Station and Generator; upgrade/retrofit undersized stormwater systems on Atlantic Avenue from Groveland to Wilmont, Bethel Road/Route 9 intersection, Jordon Road, Defeo Lane, Osborne Road, Princeton Road, Haddon Road, and Amber Road then parallel along Dartmouth Road and perpendicular across Exton Road; an area that runs perpendicular through Woodland Avenue across the block and across Somers Point Mays Landing Road to a small section behind Broadway Avenue that floods due to tidal and rainwater drainage issues; Address flooding that occurs along Bucknell Road North and around the block to Bucknell Road South due to tidal issues; Address flooding that occurs along Amber Road from Yale Boulevard to Bala Drive due to tidal issues; Address flooding that occurs along Exton Road from Cornell Road to Bala Dive due to tidal issues; Address pipe that runs perpendicular through Wisteria Walk across Laurel Drive that floods due to tidal and rainwater that cannot drain; Address a section of Somers Point Mays Landing Road that runs along the marsh and Patcong Creek that floods the intersection of Horter Avenue to Cliveden Avenue and Woodlawn Avenue and beyond to the bridge to Egg Harbor Township. (New, includes elements of prior actions)	Flood	H
	6	Acquisition of three properties on Jordon Road, Block 1129, Lots 24 and 25; Block 1127, Lot 9 (Action 6 in 2016 Plan)	Flood, Storm surge	H
	7	Maintain active training schedules for all relevant officials (New)	Extreme wind, Flood	H
	8	Require real estate disclosure of flood hazards (New)	Flood	H
	9	Continue to apply for FEMA Funding to elevate homes. (New)	Flood	H
	10	Continue to revise the Floodplain Management Plan, Repetitive Loss Analysis, Natural Resources Plan, Watershed Management Plan, mapping elevation certificates, and implement all hazards education/outreach programs. (New, elements of prior actions)	All	H
	11	Utilize existing "reverse 911", Nixle service, social media accounts, local emergency AM radio system. Ensure local websites are up to date and information linked to AC Install City-Wide Warning System/Implement IPAWS notifications using cell towers OEM. Install remotely actuated road flood barrier warning system (New)	All	H
	12	Revised Flood Prevention codes, construction codes and planning guidance (New)	Flood	H

SECTION 6 – MITIGATION STRATEGY

Table 6.3 – Overview of Municipal Mitigation Strategies
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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
Ventnor, City of	1	New bulkheading along Winchester Avenue from Jackson to Dorset (Action 2 in 2016 Plan)	Hurricane/tropical storm, Nor'easter, Flood, Coastal erosion, Storm surge, Wave action	H
	2	Elevate Wellington Avenue so that initial flooding will not wash out evacuation road. (Action 4 in 2016 Plan)	Hurricane/tropical storm, Nor'easter, Flood, Coastal erosion, Storm surge	H
	3	Code enforcement: Enforcement of State and Local Building Codes with Continual CEO training. (prevention) (Action 5 in 2016 Plan)	All	H
	4	Work with city and planning board engineer along with city solicitor to ensure building codes meet state requirements (Action 6 in 2016 Plan)	All	H
	5	Distribution of flyers, posting information on web-site, newsletter and Facebook page. Public awareness program on Hazards, Prevention, and Mitigation: County will maintain a hazard mitigation and mitigation planning web presence (local municipal web sites to link up to this site, if they haven't already done so); all participating jurisdictions to support preparation of a joint annual hazard mitigation and mitigation planning fact sheet and its distribution; periodic discussion of hazard mitigation and the mitigation plan at other regular local meetings; use of annual flyers, newsletters, advertisements, or radio/tv announcements, etc. at the discretion of each jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (Action 7 in 2016 Plan)	All	H
	6	Installation of storm water pumping stations for flood mitigation at Freemont & Little Rock Avenues and at Derby & Marshall Avenues (Action 8 in 2016 Plan)	Hurricane/tropical storm, Nor'easter, Flood, Storm surge	H
	7	Installation of backup power generators at following pump stations: Lafayette Ave, City Yard (Cornwall Ave), Fulton & Harvard Avenues, and Freemont & Little Rock. (Action 9 in 2016 Plan)	All	H
	8	Installation of city wide warning system for notification of residents and visitors (Action 12 in 2016 Plan)	All	H
	9	Elevate & recondition pump stations at Lafayette Ave, Fulton & Harvard, City Yard (Cornwall) (Action 10 in 2016 Plan)	Hurricane/tropical storm, Nor'easter, Flood, Storm surge	H
	10	The City has received a FEMA scoping grant which will fund the evaluation of the Ventnor Heights area and make recommendations for improvements. (New)	Hurricane/tropical storm, Nor'easter, Flood, Storm surge	H
	11	Inspect all check valves and replace/repair as needed. Existing structures (New)	Flood, Storm Surge	H

SECTION 6 – MITIGATION STRATEGY

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	12	Continue to revise the Floodplain Management Plan, Repetitive Loss Analysis, Natural Resources Plan, Watershed Management Plan, mapping elevation certificates, and other actions. (New)	Flood	H
	13	Close bulkhead gaps; Elevate bulkheads (Public and Private) Newport, Portland, Edgewater, evaluate piping system for the Ventnor Gardens Pump Station. (New)	Flood	H
	14	Continue to apply for FEMA Funding to elevate homes. (New)	Flood	H
	15	Contribute documentation for and work with the US Army Corps of Engineers New Jersey Back Bays Coastal Storm Risk Management Study. As the project progresses, Somers Point will adjust its mitigation activities considering more comprehensive improvements planned by the Army Corps. (New)	Flood, Storm surge	H
Weymouth, Township of	1	1. The Township will enlist the help of the State Forest Fire Service which has available information on Wildfires to provide presentations at local campgrounds and the local elementary school. 2. The Township will print and distribute existing available information in regard to Wildfires and Fire Prevention in general.	Wildfire	H
	2	Public Works Employees will be educated regarding trees , e.g. types of trees for specific needs, diseases, etc. Information made available to Public through web site and links to Rutgers Extension Service, etc.. Tag trees in public areas with numbers and maintain an inventory.	Winter storms	M
	3	Assess scope of project over three municipalities, including County roadways, investigate funding sources, obtain easements, then clear existing drainage ditches.	Flood	M
	4	Municipality must look for venues to advertise information available on the County web site. Flyers and printable information should be distributed with the local newsletter and through other municipal mailings. All Township meetings of Boards, Commissions / Authorities should be used to discuss mitigation possibilities.	All	H
	5	Municipality's land use boards and Environmental Commission must review all ordinances and codes in light of mitigating hazards.	All	M
	6	Review all development plans and investigate all development complaints.	All	M
	7	Ensure that the principles of this hazard mitigation plan are integrated into the new and updated development plans/strategies through a courtesy review of draft plans by the County Planning Department.	All	M
	8	Provide all emergency preparedness update information to the ACOEP to ensure that the most current and accurate information is available to the public on the County web site.	All	H
	9	Remain in contact with the County to ensure educational workshops offered through the County to the municipality on zoning and planning issues are timely and well attended.	All	L
	10	Share the hazard mitigation plan with all members of the Planning and Zoning boards as well as their professional staff to keep the principles of the plan at the forefront of all planning and development issues.	All	H

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Jurisdiction	Action #	Project Description	Hazard(s) Addressed	Priority
	11	Extend water and sewerage hookup availability to homes on Lowell Street and Riverside Drive in Belcoville area of Weymouth Township	Flood	M
	12	Build levee or berm to check extreme high tide flooding	Flood, Storm Surge	M