



9.10 City of Sea Isle City

This section presents the jurisdictional annex for the City of Sea Isle City.

9.10.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Michael Jargowsky 233 JFK Blvd (609) 425-4371 sicoem@police.seaislecitynj.us	Neil Byrne 233 JFK Blvd (609) 263-1166 Ext. 1301 nbyrne@seaislecitynj.us

9.10.2 Municipal Profile

The City of Sea Isle City is located along the Atlantic Ocean coastline of Cape May County, New Jersey. It is bounded on the north-northeast by the Township of Upper and the City of Ocean City, on the east by the Atlantic Ocean, on the south-southwest by the Borough of Avalon and the west by the Townships of Dennis and Upper. It is part of the Ocean City Metropolitan Statistical Area. The City is a beach town with most of its housing used for vacation rentals and second homes. It has a 1.5 mile beachfront promenade and several arcades, shops, restaurants and bars in the center of town. The epicenter of the town is 48th street.

According to the U.S. Census Bureau, the city has a total area of 2.5 square miles, with 2.2 square miles (of it land and 0.3 square miles of it (14.3-percent) water. As of July 1, 2014 there were estimated to be 2,083 people residing in the City.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in Section 9.10.8 of this annex, which illustrates the hazard areas along with the location of potential new development.

Table 9.10-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Address	Block / Lot	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to Present						
Busch’s Restaurant	Commercial	13 Apts/ 1 commercial	8600 Landis Ave.		A	50%
ACME Market	Commercial	3	6210 Landis Ave		A	10%
Known or Anticipated Development in the Next Five (5) Years						
Promenade	Government	NA	1 st Through 93 rd St.	NA	A	0%Minoi

** Only location-specific hazard zones or vulnerabilities identified.*

9.10.3 Natural Hazard Event History Specific to the Municipality

Cape May County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that



have occurred in the County from 2010 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.10-2. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
February 10, 2008	High Winds	No	N/A	Minor Flooding
November 12-13, 2009	Severe Weather and Flooding associated with Tropical Depression Ida and a Nor'Easter	DR-1867	Yes	Loss of Services: Road closures due to high tides. Minor power outages (category B) Public Facility Damage: Loss of 'Mobie Matt' from beach entrances. Public Assistance was requested (\$80K) Other Loss Information: Replace equipment and force accounts, category B
February 5-6, 2010	Severe Winter Storm and Snowstorm (blizzard)	DR-1889	Yes	Loss of Services: Road closures at times of high tide Public Assistance was requested (\$38K) Other Loss Information: Rental equipment, force accounts, category B
February 9-10, 2010	Winter Storm / Blizzard	No	N/A	Several inches of Snow. Equipment rental for snow removal.
December 26-27, 2010	Severe Winter Storm and Snowstorm	DR-1954	Yes	Several inches of snow. Equipment rental for snow removal.
August 27-28, 2011	Hurricane Irene	DR-4021	Yes	Life Safety: Evacuated island Loss of Services: Roads impassable at times of high tide Public Assistance was requested (\$23K) Other Loss Information: Force accounts, category B
October 28, 2012	Hurricane Sandy	DR-4086	Yes	Life Safety: Mandatory evacuation of island, sheltered approximately 30 individuals Loss of Services: Closed island, all services were suspended Infrastructure Damaged: Pumping station was damaged Public Facility Damage: Lost Police Station and City Hall due to salt water incursion. Damaged several other City buildings. Private Facility Damage: Damages to hundreds of private dwellings Public Assistance was requested (\$10s of millions) Other Loss Information: Force accounts, category B, equipment and buildings
01 October 2015 Nor'easter.	Strong Winds/Tides	Unknown	Unknown	Loss of Services: Roads closed due to high/moderate tidal flooding Public Assistance was requested (\$7M) Other Loss Information: Category G, loss of beach sand

9.10.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The risk ranking methodology is presented in Section 5.3. However, each municipality had the opportunity to adjust the final ranking based on municipal feedback. The following





summarizes the hazard vulnerabilities and their ranking in the City of Sea Isle City. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the City of Sea Isle City.

Table 9.10-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Climate Change & Sea Level Rise	RCV in +3 feet: \$818,902,559	Frequent	33	High
Coastal Erosion	RCV in CEHA: \$27,861,236	Frequent	18	Medium
Flood	1% Annual Chance: \$3,342,584,189	Frequent	54	High
Hurricanes & Tropical Storms	Category 1 SLOSH: \$3,279,171,598 Category 2 SLOSH: \$3,391,834,018 Category 3 SLOSH: \$3,448,256,622 Category 4 SLOSH: \$3,460,453,439	Frequent	54	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Weather	100-Year MRP: \$21,528,078 500-year MRP: \$186,502,117 Annualized: \$1,400,781	Frequent	48	High
Severe Winter Weather	1% GBS: \$23,202,499 5% GBS: \$116,012,496	Frequent	51	High
Tsunami	Damage estimate not available	Rare	6	Low
Wildfire	Estimated Value Exposed to Extreme, Very High and High: \$1,857,371	Frequent	18	Medium

Notes: GBS = General building stock; MRP = Mean return period.

- a. The general building stock valuation is based on the custom inventory generated for the County utilizing improved value.
- b. High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
- c. Refer to Section 5.1 for further details on the loss methodology. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH and the 2015 FEMA DFIRM for the 1-percent annual chance event. For the wildfire hazard, the improved value and estimated contents of buildings located within the identified hazard zones is provided.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the City of Sea Isle City.

Table 9.10-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Sea Isle City	3,526	2,231	\$33,211,835	113	47	3,302

Source: FEMA, 2015





- Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of July 31, 2015 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents claims closed by 7/31/2015.
- Note (2) Total building and content losses from the claims file provided by FEMA Region 2.
- Note (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.
- Note (4) FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.
- Note (5) A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Critical Facilities

Table 9.10-5. Number of Critical Facilities Located in the 1-Percent Annual Chance Flood Zone

Municipality	Facility Types																	
	Airport	Communication	County Office	EMS	Emergency Operation Center	Ferry	Fire Station	Library	Marina	Military	Municipal Hall	Place of Interest	Police Station	School	Senior Facility	Wastewater Pump	Wastewater Treatment	Well
Sea Isle City	-	2	-	1	1	-	1	1	5	1	1	2	1	2	-	2	-	-

Source: Cape May County
 Note: EMS – Emergency Medical Services

Other Vulnerabilities Identified by Municipality

The City did not provide any additional information regarding vulnerable areas within the municipality.

9.10.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education/Outreach and Community classification
- Self-Assessment of Capability
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the City of Sea Isle City.

Table 9.10-6. Planning and Regulatory Tools

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No)	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes	Local	Zoning/Planning	Master Plan Re-Examination (2007)
Capital Improvements Plan	Yes	Local	Admin.	Capital Plan (adopted 12-9-14)



Table 9.10-6. Planning and Regulatory Tools

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No)	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Floodplain Management/Basin Plan	Yes	Federal, State, Local	Flood Admin	Master Plan 2007
Stormwater Management Plan	Yes	State, Local	Engineer	Ord 1480 2010
Open Space Plan	Yes	Local	Zoning/Plan	Master Plan 2007
Stream Corridor Management Plan	Yes	Local	Zoning/Plan	Storm Water Ord./ Zoning #26 2010
Watershed Management or Protection Plan	No	N/A	N/A	NA
Economic Development Plan	Yes	Local	Zoning/ Plan	Master Plan 2007
Comprehensive Emergency Management Plan	Yes	County, Local	OEM	Emerg Management/Disaster Plan 2007
Emergency Response Plan	Yes	Local	OEM	Emerg Management Plan 2010
Post-Disaster Recovery Plan	Yes	Local	OEM	Emerg. Management Plan 2010
Transportation Plan	Yes	Local	Admin	NA
Strategic Recovery Planning Report	No	N/A	N/A	
Other Plans:	Yes	Local	Shade Tree Commission	Community Forestry Plan
Regulatory Capability				
Building Code	Yes	State, Local	Building	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Yes	State, Local	Planning, Zoning	Chapter 26: Zoning
Subdivision Ordinance	Yes	State, Local	Planning,	Chapter 32: Land Subdivision
NFIP Flood Damage Prevention Ordinance	Yes	Fed, State, Local	Flood Admin	Chapter 14: Flood Damage Prevention
NFIP: Cumulative Substantial Damages	Yes	Local	Flood Admin	Chapters 14, 26 General Ordinance
NFIP: Freeboard	Yes	State, Local	Flood Admin	Chapters 14, 26 General Ordinance
Growth Management Ordinances	Yes	Local	Zoning	Chapter 26: Zoning
Site Plan Review Requirements	Yes	Local	Zoning	Chapter 30 General Ordinance
Stormwater Management Ordinance	Yes	Local	Public works	Chapter: Ord 1480 2010
Municipal Separate Storm Sewer System (MS4)	Yes	State Local	DPW	Chapter: Ord 1480 2010
Natural Hazard Ordinance	Yes	Local	Construction	Chapter: Chap 14
Post-Disaster Recovery Ordinance	No	N/A	N/A	
Real Estate Disclosure Requirement	Yes	Local	Flood Admin	Chapter: Chap 14 CRS
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes	Local	Engineer/Const.	Chapter 22: Bulkheads and Waterways; Chapter 24: Drainage, Grades and Elevations



Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the City of Sea Isle City.

Table 9.10-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Planning/ Zoning
Mitigation Planning Committee	Yes	Administration
Environmental Board/Commission	Yes	Administration
Open Space Board/Committee	Yes	Administration
Economic Development Commission/Committee	Yes	Administration
Maintenance Programs to Reduce Risk	Yes	All Departments
Mutual Aid Agreements	Yes	Administration
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Planning/Zoning
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Administration
Planners or engineers with an understanding of natural hazards	Yes	Administration
NFIP Floodplain Administrator	Yes	Construction Official
Surveyor(s)	Yes	Administration
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	Administration
Scientist familiar with natural hazards	Yes	Administration
Emergency Manager	Yes	Public Safety
Grant Writer(s)	Yes	Administration
Staff with expertise or training in benefit/cost analysis	Yes	Administration
Professionals trained in conducting damage assessments	Yes	Administration, OEM

Fiscal Capability

The table below summarizes financial resources available to the City of Sea Isle City.

Table 9.10-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	Yes
Impact Fees for homebuyers or developers of new development/homes	No
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No



Table 9.10-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Withhold public expenditures in hazard-prone areas	No
Other Federal or State Funding Programs	Yes
Open Space Acquisition Funding Programs	Yes
Other	

Education/Outreach and Community Classifications

The table below summarizes education/outreach programs the community participates in and the classifications for community program available to the City of Sea Isle City.

Table 9.10-9. Education/Outreach and Community Classifications

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	Yes	Class 5	Oct 2013
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	3/3	6/2012
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	5	10/2015
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A
Disaster/Safety Programs in/for Schools	No	N/A	N/A
Organizations with Mitigation Focus (advocacy group, non-government)	Yes	-	-
Public Education Program/Outreach (through website, social media)	Yes	-	-
Public-Private Partnerships	Yes	-	-

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1,000 feet of a creditable fire hydrant and is within five road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>





- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the City of Sea Isle City’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.10-10. Self-Assessment of Capability

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability			X
Community Political Capability			X
Community Resiliency Capability			X
Capability to Integrate Mitigation into Municipal Processes and Activities			X

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Cornelius R Byrne, CFM

Flood Vulnerability Summary

The City maintains a list of flood damaged properties and identifies property owners that are interested in mitigation. As a result of Hurricane Sandy, fifteen public buildings or pieces of public infrastructure were damaged. Municipal Services Buildings were rebuilt and combined and are NFIP compliant. Most damage to private structures was minimal water and wind damage. Seventeen properties were determined to be substantially damaged and all seventeen of them have since been mitigated. Funding for mitigating these properties was a combination of private funds, ICC insurance claims and/or HMGP grants.

Resources

The Flood Damage Prevention Ordinance (FDPO) identifies the Construction Official as the NFIP Floodplain Administrator. The floodplain administrator is the sole person assuming responsibilities for floodplain administration, although the City administration is very proactive in dealing with flood hazard mitigation within the community. All floodplain management functions are coordinated through the Construction Office with the support of all other City Departments as needed.

The City provides education and outreach regarding flood hazards as part of their Community Rating System (CRS) program. The City has a proactive approach to education and outreach that goes above and beyond minimum requirements and many other jurisdictions.

Currently, there are no identified barriers to running an effective floodplain management program in the City. The floodplain administrator is adequately trained for floodplain management responsibilities as continuing education and learning opportunities is provided for staff with floodplain management responsibilities.



Compliance History

The City is currently in good standing with the NFIP. The most recent Community Assistance Visit was held in 2015.

As of August 31, 2015 there are 6,502 policies in force, insuring over \$1.4 billion of property with total annual insurance premiums of \$3,800,665. Since 1978, 2,227 claims have been paid totaling \$33,242,379 (2,807 claims total have been submitted; however, 575 claims were closed without pay and 5 claims are still open).

Regulatory

The City of Sea Isle City's floodplain regulations exceed the minimum State and FEMA requirements. The Planning and Zoning Boards are well aware of the City's Chapter 14 Flood Prevention Ordinance and include flood management review as part of application process. As a Class 5 CRS Community City staff and the residents are well aware of the enforcement of the flood plain rules and regulations.

Community Rating System

The City of Sea Isle City is currently a Class 5 community in the Community Rating System (CRS) program. City staff are constantly looking for ways to improve the community's CRS rating and insurance discount.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Land Use Planning: The City of Sea Isle City has a Master Plan that is currently undergoing revisions that are expected to be completed in late 2016. The Master Plan considers areas of natural hazard risk, but does not currently refer to the hazard mitigation plan. Discussion to include reference to the plan will be part of the current revision process.

Stormwater Management: The City is a MS4 Regulated Community. The City has stormwater management plan that identifies projects, actions and/or initiatives to mitigate stormwater flooding.

Open Space: See Master Plan

Economic Development Plan: See Master Plan

Continuity of Operations: The City has a Continuity of Operations plan that will serve to protect the local government and operations from natural hazard disruptions.

Comprehensive Emergency Management Plan: The City has a Comprehensive Management Plan that refers to the Hazard Mitigation Plan.

Regulatory and Enforcement (Ordinances)

The City has multiple chapters pertaining to the mitigation of hazards. These ordinances include the Flood Damage Prevention Chapter, Building Code, Stormwater Management Ordinance and others. The Planning Board and Zoning Board of Adjustments use the zoning ordinance and Community Rating System (CRS)





documentation to guide their decisions with respect to natural hazard risk management. Developers in the City are required to take additional actions to mitigate natural hazard risk including maintaining pervious coverage components, use of gutters and downspouts and compliance with Chapter 14 Flood Prevention Ordinance.

Operational and Administration

Land Use Planning: The City has a municipal planner responsible for Master Plan Review. While performing their duties as Land Use Boards, the Planning Board and Zoning Board of Adjustments are always mindful of the requirements of Chapters 14, 26 and 30 of the General Ordinances of SIC. The City's Environmental Commission and CRS Program for Public Information committee also have functions related to managing natural hazard risk.

Stormwater Management: Stormwater Management functions in the community are performed by Don Teefy, City Engineer and Public Works.

Floodplain Management: Cornelius Bryne, CFM, the Construction Official and Floodplain Manager, performs the NFIP Floodplain Management functions.

Technical Resources: The City staff has experience with benefit-cost analysis, substantial damage estimates, and grant application preparation. City staff receive training and education in support of natural hazard risk reduction; however, staff would benefit from additional training in resiliency and grant writing.

Other Programs: The City has Dune Management permit and planning requirements.

Administration: All City departments work with each other to reduce all hazards. Staff participate in associations and organizations the support natural hazard risk reduction capabilities including, the Atlantic Cape Coastal Coalition, Floodplain Managers, NJBOA, UCCSJ, and OEM.

Funding

Operating Budget: The City's operating budget contains line items for mitigation projects/activities.

Capital Improvements Budget: The City's capital improvements budget contains mitigation-related projects.

Grants: The City has received grant funding for projects such as the New Municipal Services building FEMA, Stormwater Management upgrade, Dune and Beach replenishment FEMA

Education and Outreach

The City conducts many outreach and education projects as part of its CRS program. These outreach projects are continually updated, revised and improved to reach all sections of the community. Additionally, the City has an E-Newsletter program that includes important information about city government, projects and events.

9.10.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own



table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.10-11. Past Mitigation Initiative Status

<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP? or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
SIC-1a	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.	Borough (likely through NFIP Floodplain Administrator)	In Progress	Due to hurricane Sandy, the town has expanded its program to help and guide property owners to sources of funding to mitigate and elevate structures in flood prone areas. We have assisted property owners who were issued substantial damage letters to mitigate and elevate their structures. This help to the residents of the community continues as of September 1, 2015	Include in 2016 HMP	
SIC-1b	Where appropriate, support purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost-effectiveness versus retrofitting. Where relocation is determined to be a viable option, consider implementation of that action based on available funding.	Borough	In Progress	For the third year in a row, we have purchased a buildable lot in the North end of Sea Isle City and it has been added to our open space inventory. We are now in the process of building a new flood zone and FEMA compliant municipal structure on the site of the old Public Safety Building. Most Municipal services will be moving into the new building on September 21, 2015. This includes Police, OEM, Fire, Municipal Offices and the construction Office. We have worked with property owners in the repetitive loss areas of the City. Having done our yearly visual inspection of all repetitive loss properties it was discovered that approximately 14 additional properties on the list have been demolished or otherwise brought into compliance. Appropriate paperwork has been submitted to have	Include in 2016 HMP	



<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP? or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
				those structures removed from our Repetitive Loss list. Work to further reduce the Repetitive Loss list will continue into the future.		
SIC-2	Work with FEMA and ISO to re-establish participation in CRS.	City	Complete	In October of 2012 after much work involving the cooperation of multiple departments, we were readmitted into the CRS program as a Class 6 community which entitled property owners of compliant structures to a 20% discount on their flood insurance premium. Due to hurricane Sandy a fast track modification to the CRS point total was granted for the adoption of the Advisory Base Flood Elevation (ABFE). With our adoption of the ABFE maps we obtained the required points to achieve a Class 5 rating. This will give homeowners of compliant structures a 25% discount on their flood insurance premiums.	Discontinue	Initiative is completed. The City will work to maintain its CRS classification.
SIC-3	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	City (through mitigation planning point of contacts)	In Progress	We have maintained contact with the County Office of Emergency Management and will forward a copy of this memo to them for inclusion into the County's updating of the plan. We will continue to work with the County to provide all information needed for the required five year update to this plan. This plan has since been accepted and approved by FEMA Region 2 and the State of New Jersey OEM to be extended until January 2016. Sea Isle City is currently involved with Cape May County's OEM in the current updating of this Hazard Mitigation Plan.	Include in 2016 HMP	
SIC-4	Strive to maintain compliance with, and good-standing in the	Municipality (likely through	In Progress	We continue to vigorously enforce Chapter 14 Flood Prevention of the Sea Isle City	Include in 2016 HMP	



Initiative Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	National Flood Insurance program.	NFIP Floodplain Administrator)		General Ordinances and are continuously looking to improve our standing in the CRS Program. As part of the CRS program the following flood information is provided to our residents through multiple venues including our annual outreach brochure, our webpage and our newsletter: <ul style="list-style-type: none"> • Flood hazard • Flood map • Flood safety • Flood insurance • Property protection • Permit requirements • Substantial improvement requirements • Drainage maintenance • Natural and beneficial functions 		
SIC-5	Continue to develop, enhance, and implement existing emergency plans.	Municipal Emergency Manager with support from County OEM and NJOEM	In Progress	Sea Isle City is now in the process of evaluating our local OEM plan and our participation in the County OEM plan with regards to its use during the hurricane Sandy event. We are currently reviewing that data for possible amendments to our plan.	Include in 2016 HMP	
SIC-6	Create/enhance/ maintain mutual aid agreements with neighboring communities.	City	In Progress	At this time we continue to maintain all mutual aid agreements with local, County and State government.	Include in 2016 HMP	
SIC-7	Support County-wide initiatives identified in Section 9.1 of the County Annex. Support county-wide initiatives identified in the Cape May County Hazard Mitigation Plan	Local departments (as applicable for specific initiative)	In Progress	Where appropriate Sea Isle City has supported all Cape May County mitigation initiatives	Include in 2016 HMP	
SIC-8	Install permanent protection to CR-619, from the Whale	County and ACOE,	In Progress	Along with Cape May County, Sea Isle City has provided routine maintenance as	Include in 2016 HMP	



Initiative Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
(CMC-28, TU-13)	Beach area in Sea Isle City to the Strathmere section of Upper Township, to replace the existing GeoTube installed in the late 1990s. The GeoTube is beyond its design life.	Municipal Support		well as emergency repairs in the aftermath of hurricane Sandy. Sea Isle City has performed two beach replenishment projects, in the past five years which included sand to cover the Geo Tubes. The City's entire beachfront is now included in a federally sponsored replenishment project. The Army Corps of Engineers is currently in the process of performing this beach project with completion expected in November 2015. This Federally funded beach replenishment and dune project will provide long term protection to CR-619 from Sea Isle City to Whale Beach as well as the rest of Ludlam Island.		
SIC-9	Replenish the south end beaches from 73rd to 94th Street with approx. 700,000 cubic yards of sand.	USACE and municipality	In Progress	In early 2012 Sea Isle City completed a beach replenishment project of approximately 700,000 cubic yards of sand between the 73 rd St and 94 th St beaches. The City is now included in a federally sponsored replenishment and continued maintenance project for those beaches as well as the rest of Sea Isle City. This area is currently included in the Federally funded beach replenishment and maintenance plan	Include in 2016 HMP	
SIC-10	New ordinance for bulkhead elevation requirements (same as Ocean City)	City	Complete	Ordinance 1489, adopted on September 14, 2010, required new or replacement bulkheads in the City to be constructed to a minimum elevation of 7.5 (NGVD29). We are constantly reviewing our Ordinances in regard to increased protection of our town.	Discontinue	This initiative was completed.
SIC-11	Purchase generators at public buildings	City	Complete	Due to Hurricane Sandy and the forced relocation of City Hall, Construction Office and Public Safety (Police) personnel to the former Sea isle City Public School the school building was equipped with a	Discontinue	This initiative was completed.



Initiative Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
				natural gas fueled generator to provide emergency power for all essential equipment which will allow for the continued operation of government services in the event of an emergency. The building being designed as the new Municipal Services building will be equipped with emergency generators and existing generators will be moved to the Public Works building located at 40 th St & Central Avenue. We will be moving most City Municipal services to our new building as of September 21, 2015. This building has been equipped with 100% generator back up power in the event of damage to the main power source.		
SIC-12 (CMC-25)	Elevate JFK Boulevard (CR-625) into Sea Isle City (no funding source currently for project, but is in design phase), and upgrade stormwater system. This project is in the NJ TIP. This project will require elevation of one or more commercial properties along JFK Boulevard.	County Engineering with municipality	Complete	In the spring of 2013 Cape May County completed the redesign and elevation of JFK Blvd from the Sea Isle City Bridge to Landis Avenue using input from the Sea Isle City beach to bay corridor committee. The improvements include improvements to the roadway, drainage system, lighting and traffic signals to stop the persistent flooding and to ensure its use as an evacuation route in case of emergency. A year after completion, the JFK improvements have alleviated a great deal of the road flooding. The cause way from the main land into Sea Isle City is currently being elevated, by Cape May County, approximately 5 feet to assure access of residents and emergency vehicles during storm events and periods of high tides.	Discontinue	Initiative was completed.
SIC-13 (CMC-27)	Install bulkheads along back bay in Sea Isle City in locations (large areas) that are	Municipal, with County and	In Progress	Sea Isle City has a bulkhead maintenance plan and has replaced street end bulkheads at the western point of 47 th Place, 43 rd	Include in 2016 HMP	



Initiative Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	not protected. This includes both public and private property.	property owner support		Place at the north & south side of the Rio Del Ponte and is in the process of repairing the bulkhead at Roberts Avenue from 79 th Street to 80 th Street. At this time there are no plans to bulkhead unbulkheaded City owned properties.		
SIC-14	Host a public forum to educate and help inform our citizens so that they are best prepared for flooding situations.	Municipal (Emergency Management)	In Progress	<p>This year on May 16th Sea Isle City held its annual community day. Municipal Officials along with the City's Construction Official provided information, brochures and answered questions related to flood zones throughout the town, flood insurance, hazard mitigation and building elevation along with how this information and other recommendations can help our residents continue to stay in compliance with FEMA guidelines, our Flood Damage Prevention Ordinance and to prevent future flood damage to their properties.</p> <p>The above information, along with the following services are continually provided by the Construction Office or are accomplished throughout the year by the appropriate department.</p> <p>Map information services Send out informational mailers via the tax and water bills and the City e-alert system Provide FEMA flood information on the City's website www.seaislecitynj.us Distribute flood information to local banks, realtors and title companies Contact residents in the repetitive loss area of Sea isle as recognized in the mitigation plan</p>	Include in 2016 HMP	



<u>Initiative Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP? or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
				<p>Provide site specific information to all who request it and maintain a log We have tested and maintained our e-alert and reverse 911 emergency system and have found them both to be operational We have provided maintenance to our storm water drainage system while continuing to enforce our storm water maintenance plan</p> <p>Sea Isle City has a will continue to schedule public meetings to make sure the residents of our town are aware of the new Firm Maps and have the most up to date information available regarding the recently released Flood Map data.</p>		



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The City has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2010 Plan:

- Beach fill/Dunes (led by FEMA, U.S. Army Corp of Engineers, funded federally, 80 percent complete)
- Replace various City owned Bulkheads (led by the City, funded by FEMA and locally, 80 percent complete)
- Various Capital improvements to storm water infrastructure system (led by the City and County, funded by the City and County, 30 percent complete)
- Raising and storm water improvements County route 619 (led by the County, funded by the County, 100 percent complete)
- Raising and storm water improvements County route 619 (Sea Isle Causeway) (led by the County, funded by the County and Federally, 10 percent complete)
- New Municipal Services building (led by the City, funded locally, 100 percent complete)
- Mitigated or removed non-compliant City owned building and structures. Make City infrastructure more resilient. (led by the City, funded locally, 50 percent complete)
- Continue upgrades and rebuild of storm water systems though out City. (led by the City, funded locally and by grants, 30 percent complete)
- Upgrades to Emergency notification systems throughout City (led by the City, funded locally, by grants and federally, 10 percent complete)

Proposed Hazard Mitigation Initiatives for the Plan Update

Table 9.10-12 summarizes the comprehensive-range of specific mitigation initiatives the City would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, fourteen evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High,’ ‘Medium,’ or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.10-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.10-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
SIC-1a (former SIC-1a)	<p>Property Mitigation Support – Retrofit: Where appropriate, support retrofitting (e.g. elevation) of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.</p> <p>The City has done extensive public education and outreach regarding available mitigation opportunities, including informing Sea Isle City RL/SRL property owners of workshops on April 9, 2016 (in Ocean City) and again on April 16, 2016 (in Wildwood) to learn more about current and future opportunities to mitigate their flood-prone properties. The City has formally been an active participant in the “Enhanced RL/SRL Initiative” within this plan update process, as described further in Section 6.</p> <p>Funding sources: FEMA Mitigation Grant Programs (primarily HMGP and FMA); local property owner for match as supported by ICC and other non-Federal match sources as available.</p>											
	See above.	Existing	Coastal Storm, Flood, Severe Weather	1, 2, 4, 6	City (through NFIP Floodplain Administrator)	High	High	See above.	Long-term DOF	Medium-High*	EAP, SIP	PI, PP
SIC-1b (former SIC-1b)	<p>Property Mitigation Support – Acquisition/Relocation: Where appropriate, support acquisition and/or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for acquisition/relocation based on cost-effectiveness versus retrofitting. Where acquisition/relocation is determined to be a viable option, consider implementation of that action based on available funding.</p> <p>The City has done extensive public education and outreach regarding available mitigation opportunities, including informing Sea Isle City RL/SRL property owners of workshops on April 9, 2016 (in Ocean City) and again on April 16, 2016 (in Wildwood) to learn more about current and future opportunities to mitigate their flood-prone properties. The City has formally been an active participant in the “Enhanced RL/SRL Initiative” within this plan update process, as described further in Section 6.</p> <p>Funding sources: Green Acres/Blue Acres Grant(s) and local share Open Space Fund; FEMA Mitigation Grant Programs (primarily HMGP and FMA); local property owner for match as supported by ICC and other non-Federal match sources as available.</p>											
	See above.	Existing	Coastal Storm, Flood, Severe Weather	1, 2, 4, 6	City (through NFIP Floodplain Administrator)	High	High	See above.	Long-term DOF	Medium-High*	SIP	SP
SIC-2	Continue to pursue the acquisition of privately owned land parcels located in flood prone areas and within the City’s dune system (from Master Plan).	N/A	Coastal Storm, Flood, Severe Weather	2, 5	City Administration; working with NJDEP	High	High	NJDEP Green Acres and Blue Acres Funding; City funding as available	DOF	Medium	LPR, NSP	PR, NR



Table 9.10-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
SIC- 3 (former SIC-3)	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0, and as required under the CRS program.	New & Existing	All Hazards	1 through 6	City (through mitigation planning point of contacts)	Medium	Low – High (for 5-year update)	Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Ongoing	High	LPR	PR
SIC- 4- (former SIC-2, -4)	Continue to maintain compliance with, and good-standing in the National Flood Insurance program, including continuing active participation in CRS. As part of the CRS program the following flood information is provided to our residents through multiple venues including our annual outreach brochure, our webpage and our newsletter: a) Flood hazard b) Flood map c) Flood safety d) Flood insurance e) Property protection f) Permit requirements g) Substantial improvement requirements h) Drainage maintenance i) Natural and beneficial functions											
	See above.	New & Existing	Flood	1, 2, 4, 5, 6	City (through NFIP Floodplain Administrator)	High	Low - Medium	Local Budget	Ongoing	High	LPR, EAP	PP, PI, NR
SIC- 5 (former SIC-5)	Continue to develop, enhance, and implement existing emergency plans. Sea Isle City is now in the process of evaluating our local OEM plan and our participation in the County OEM plan with regards to its use during the hurricane Sandy event. We are currently reviewing that data for possible amendments to our plan.											
	See above.	New & Existing	All Hazards	1, 3, 4, 6	Municipal Emergency Manager with support from County OEM and NJOEM	Medium	Low - Medium	Local Budget	Ongoing	Medium	LPR	PR, ES
SIC- 6 (former SIC-7)	Support County-wide initiatives identified in Section 9.1 of the County Annex. Support county-wide initiatives identified in the Cape May County Hazard Mitigation Plan	New & Existing	All Hazards	1 through 6	Local departments (as applicable for specific initiative)	Medium-High	Low - High	Existing programs and grant funding where applicable	Ongoing – Long-term depending on initiative	Medium-High (dependent)	LPR, EAP	PR, PP, PI, NR, ES, SP



Table 9.10-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
SIC- 7 (former SIC-8 and -9 (CMC-28, TU-13))	<p>Beachfront Maintenance and Protection of CR-619: Maintain permanent protection to CR-619, from the Whale Beach area in Sea Isle City to the Strathmere section of Upper Township. Along with Cape May County, Sea Isle City has provided routine maintenance as well as emergency repairs in the aftermath of hurricane Sandy. Sea Isle City has performed two beach replenishment projects, in the past five years which included sand to cover the Geo Tubes. The City's entire beachfront is now included in a federally sponsored replenishment project. The Army Corps of Engineers is currently in the process of performing this beach project with completion expected in November 2015. This Federally funded beach replenishment and dune project will provide long term protection to CR-619 from Sea Isle City to Whale Beach as well as the rest of Ludlam Island. In early 2012 Sea Isle City completed a beach replenishment project of approximately 700,000 cubic yards of sand between the 73rd St and 94th St beaches. The City is now included in a federally sponsored replenishment and continued maintenance project for those beaches as well as the rest of Sea Isle City. This area is currently included in the Federally funded beach replenishment and maintenance plan.</p> <p>See also SIC-8 below.</p>											
	See above.	Existing	Coastal Storms, Coastal Erosion, Flooding, Severe Weather	1, 3, 4, 5, 6	County and ACOE, Municipal Support	High – incl. protection of critical transportation infrastructure	High	ACOE funded	Ongoing - Continuous	High	SIP, NSP	PP, SR
SIC- 8 (former SIC-13)	<p>Install bulkheads along back bay in Sea Isle City in locations (large areas) that are not protected. This includes both public and private property.</p> <p>Sea Isle City has a bulkhead maintenance plan and has replaced street end bulkheads at the western point of 47th Place, 43rd Place at the north & south side of the Rio Del Ponte and is in the process of repairing the bulkhead at Roberts Avenue from 79th Street to 80th Street. At this time there are no plans to bulkhead unbulkheaded City owned properties.</p>											
	See above.	Existing	Coastal Storms, Coastal Erosion, Flooding, Severe Weather	1, 3, 4, 5, 6	Municipal, with County and property owner support	Medium - High	High	TBD	Longterm DOF	Medium	SIP	PP
SIC- 9 (former SIC-14)	<p>Public Education and Outreach: Continue to host a public forums to educate and help inform our citizens so that they are best prepared for flooding situations. Sea Isle City has a will continue to schedule public meetings to make sure the residents of our town are aware of the new Firm Maps and have the most up to date information available regarding the recently released Flood Map data.</p> <p>The above information, along with the following services are continually provided by the Construction Office or are accomplished throughout the year by the appropriate department.</p> <ul style="list-style-type: none"> A) Map information services B) Send out informational mailers via the tax and water bills and the City e-alert system C) Provide FEMA flood information on the City's website: www.seaislecitynj.us D) Distribute flood information to local banks, realtors and title companies E) Contact residents in the repetitive loss area of Sea Isle as recognized in the mitigation plan F) Provide site specific information to all who request it and maintain a log G) We have tested and maintained our e-alert and reverse 911 emergency system and have found them both to be operational H) We have provided maintenance to our storm water drainage system while continuing to enforce our storm water maintenance plan 											





Table 9.10-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures (1)	Hazard(s) Mitigated (2)	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	See above.	N/A	Coastal Storms, Flooding, Severe Weather	2, 4, 6	Municipal (Emergency Management)	Medium	Low	Local	Ongoing	High	EAP	PI
SIC-10	Continue to limit development in the vulnerable and environmentally sensitive North End by continuing the single and two-family zoning in the area (from Master Plan)	New	Coastal Storms, Flooding, Severe Weather	1, 3	City Administration, Planning and Zoning	Medium	Low	City Budget	Ongoing	High	LPR	PR
SIC-11	Impervious surfaces on individual lots should be controlled by establishing a certain percentage of the lot being a pervious surface. (from Master Plan)	New	Coastal Storms, Flooding, Severe Weather	5	Planning and Zoning	Medium	Low	City Budget	Ongoing	Medium	LPR	PR

Notes:

Not all acronyms and abbreviations defined below are included in the table.

(1) Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

(2) While Climate Change and Sea Level rise are not specifically identified as “hazards mitigated” in this table, it is recognized that climate change and sea level rise may exacerbate/amplify the risk of the following identified hazards: Climate Change – Coastal Erosion, Flood Coastal Storms (hurricane, tropical storms, Nor’Easters), Severe Weather, Severe Winter Weather, Wildfire; Sea Level Rise – Coastal Erosion, Flood Coastal Storms (hurricane, tropical storms, Nor’Easters), Tsunami.

Acronyms and Abbreviations:

CAV Community Assistance Visit
 CRS Community Rating System
 DPW Department of Public Works
 FEMA Federal Emergency Management Agency
 FPA Floodplain Administrator
 HMA Hazard Mitigation Assistance
 N/A Not applicable
 NFIP National Flood Insurance Program
 OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program
 HMGP Hazard Mitigation Grant Program
 PDM Pre-Disaster Mitigation Grant Program
 RFC Repetitive Flood Claims Grant Program (discontinued)
 SRL Severe Repetitive Loss Grant Program (discontinued)

Timeline:

Short 1 to 5 years
 Long Term 5 years or greater
 OG On-going program
 DOF Depending on funding





Costs:

Where actual project costs have been reasonably estimated:

- Low < \$10,000
- Medium \$10,000 to \$100,000
- High > \$100,000

Where actual project costs cannot reasonably be established at this time:

- Low Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
- Medium Could budget for under existing work plan, but would require a reappropriation of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
- High Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

- Low= < \$10,000
- Medium \$10,000 to \$100,000
- High > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

- Low Long-term benefits of the project are difficult to quantify in the short term.
- Medium Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
- High Project will have an immediate impact on the reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities
- Emergency Management (EM) – These actions are identified as an emergency management activity; however, they are not necessarily “mitigation”

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities



Table 9.10-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
SIC-1a (former SIC-1a)	Property Mitigation Support – Retrofit	1	1	1	1	1	0	0	0	1	1	1	1	1	0	10	Medium-High*
SIC-1b (former SIC-1b)	Property Mitigation Support – Acquisition/Relocation	1	1	1	1	0	0	0	0	1	1	1	1	1	0	9	Medium-High*
SIC-2	Acquire privately owned land parcels located in flood prone areas and within the City’s dune system (from Master Plan).	0	1	0	1	0	0	-1	1	1	1	1	0	1	1	7	Medium
SIC- 3 (former SIC-3)	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0, and as required under the CRS program.	0	1	1	1	1	1	0	0	1	1	1	1	1	1	11	High
SIC- 4 (former SIC-2, -4)	Continue to maintain compliance with, and good-standing in the National Flood Insurance program, including continuing active participation in CRS.	1	1	1	1	1	0	0	1	1	0	1	1	1	1	11	High
SIC- 5 (former SIC-5)	Continue to develop, enhance, and implement existing emergency plans.	1	1	1	1	1	1	0	0	1	0	1	1	1	1	11	Medium
SIC- 6 (former SIC-7)	Support County-wide initiatives identified in Section 9.1 of the County Annex. Support county-wide initiatives identified in the Cape May County Hazard Mitigation Plan	1	1	0	1	0	1	0	0	1	0	1	1	1	1	9	Medium-High (dependent)
SIC- 7 (former SIC-8 and -9 (CMC-28, TU-13)	Beachfront Maintenance and Protection of CR-619	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
SIC- 8 (former SIC-13)	Install bulkheads along back bay in Sea Isle City in locations (large areas) that are not protected.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
SIC- 9 (former SIC-14)	Public Education and Outreach	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	High
SIC-10	Continue to limit development in the vulnerable and environmentally sensitive North End by continuing the single and two-family zoning in the area (from Master Plan)	1	1	1	1	1	0	1	1	0	1	1	1	0	0	10	High
SIC-11	Impervious surfaces on individual lots should be controlled by establishing a certain percentage of the lot being a pervious surface. (from Master Plan)	1	1	1	1	0	0	0	1	0	1	1	0	0	0	7	Medium

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions. Where the community has determined that the original priority ranking for “carry forward” initiatives remains valid, the earlier priority ranking is indicated on the prioritization table, however the 2016 criteria ratings are indicated with a null “-” marking.

* The municipality recognizes that the mitigation of RL/SRL priorities is a Federal and State priority despite the fact that limited local resources and authority limit the municipality’s ability to implement this project.





9.10.7 Future Needs To Better Understand Risk/Vulnerability

Study concerning nuisance street flooding.

9.10.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the City of Sea Isle City that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the City of Sea Isle City has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.10.9 Additional Comments

None at this time.



Figure 9.10-1. City of Sea Isle City Hazard Area Extent and Location Map 1

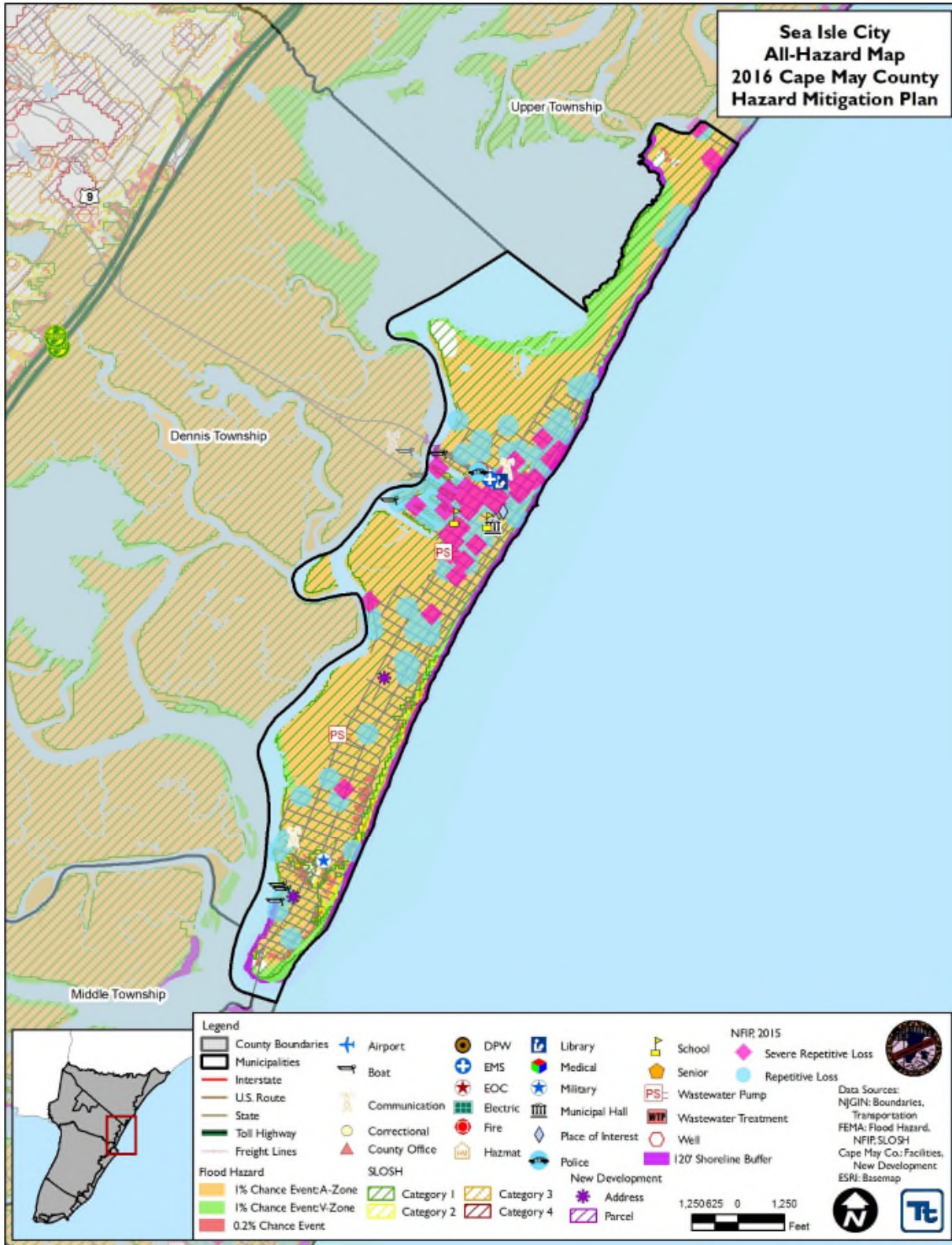




Figure 9.10-2. City of Sea Isle City Hazard Area Extent and Location Map 2

